CDP-C701ES/C801ES

SERVICE MANUAL

US Model
CDP-C701ES/C801ES
Canadian Model
AEP Model
E Model
CDP-C701ES

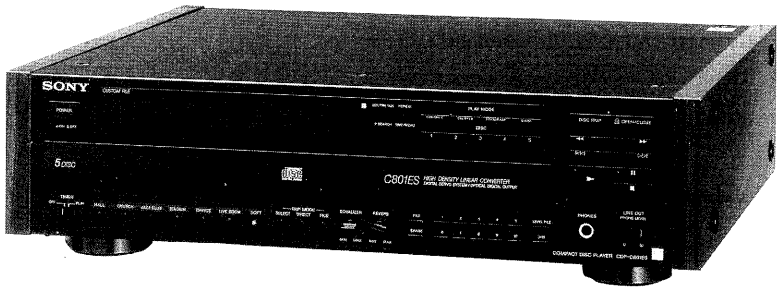


Photo : CDP-C801ES

COMPACT disc DIGITAL AUDIO

SPECIFICATIONS

Compact Disc Player

System	Compact disc digital audio system
Laser	Semiconductor laser
Wavelength	780 - 790 nm
Frequency response	2 Hz - 20 kHz (±0.3 dB)
Signal to noise ratio	More than 116 dB
Dynamic range	More than 100 dB
Harmonic distortion	Less than 0.0023% (1 kHz)
Channel separation	More than 110 dB (1 kHz)

Outputs

LINE OUT (FIXED) (phono jacks)	Output level 2 V (at 50 kilohms, non-DSP mode) Load impedance over 10 kilohms
LINE OUT (VARIABLE) (phono jacks)	Output level max. 2 V (at 50 kilohms, non-DSP mode) Load impedance over 10 kilohms
DIGITAL OUTPUT (OPTICAL) (optical output connector)	Wave length 660 nm Output level –18 dBm
PHONES (stereo phone jack)	Output level max. 15 mW Load impedance 32 ohms

General

Power requirements	US, Canadian model : 120 V AC, 60 Hz AEP model : 220—230 V AC, 50/60 Hz E model : 110—120 V or 220—240 V AC adjustable, 50/60 Hz
Power consumption	23 W
Dimensions (w/h/d)	Approx. 470 × 125 × 385 mm (18 5/8 × 5 × 15 1/4 inches) Including projecting parts and controls
Mass (approx.)	CDP-C801ES 9.1 kg (20 lbs 1 oz) CDP-C701ES 8.7 kg (19 lbs 3 oz)

使用時は添付資料も参照のこと
Refer to the additional documents

Model Name Using Similar Mechanism	NEW
Optical Pick-up Block Type	BU-5BD11

Remote Commander RM-D801

Remote control system	Infrared control
Power requirements	3 V DC with two size AA batteries (IEC designation R6)
Dimensions	62 × 20 × 175 mm (w/h/d) (2 1/2 × 13/16 × 7 inches)
Mass (approx.)	130 g including batteries (4.6 oz)

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

COMPACT DISC PLAYER

SONY®

For the European Countries

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER Product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

Note
This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

The following caution label is located inside the unit.

CAUTION	:	INVISIBLE LASER RADIATION WHEN OPEN, AVOID EXPOSURE TO BEAM.
ADVARSEL:		USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEADSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDS ÆTTELSE FOR STRÅLING.
VARO!	:	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA DLET ALTTIINA LASERSÄTEILYLLE.
VARNING	:	LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URXOPPLAD.
ADVERSEL:		USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN.

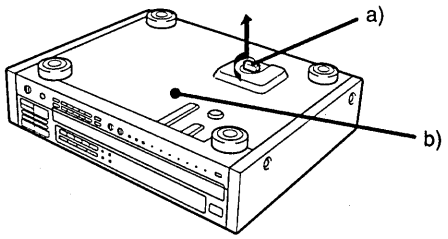
NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30cm away from the objective lens.

Notes on the Transit Key (and Red Lock Screw: CDP-C801ES only)



a) Transit key
The transit key on the bottom of the player protects the optical system against shock during transportation. Before operating the player, be sure to remove the key by following the instructions on the label, and keep it in a safe place.

When transporting the player, re-install the key by following the instructions below.

1 Remove all the discs from the player.
2 Press ⏏ to close the disc tray and wait for "𝒟 (or 𝒟 , 𝒟 ...)" to disappear in the display.
3 Turn the power off.
4 Insert the key into its original hole and lock it in place.

b) Red lock screw (CDP-C801ES only)
Besides the transit key, the CDP-C801ES has a red lock screw on the bottom. Before operating the CDP-C801ES, be sure to remove the transit key and red lock screw, and keep them in a safe place.

When transporting the player, re-install the screw and key by following the instructions below.

1 Remove all the discs from the player.
2 Press DISC SKIP until the DISC 1 compartment is at the front position.
3 Press ⏏ to close the disc tray and wait for "𝒟" to disappear in the display.
4 Turn the power off.
5 Re-install the red lock screw and transit key.

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

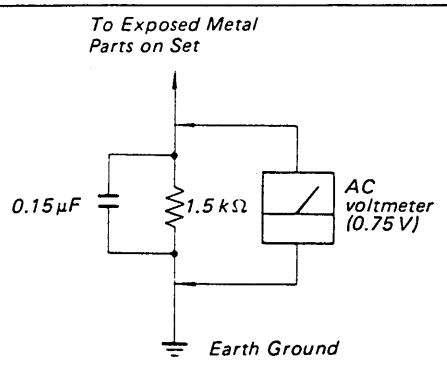
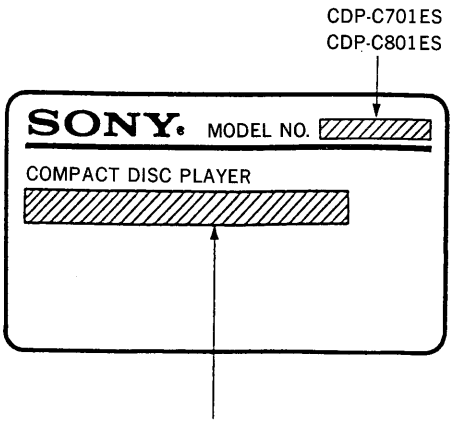


Fig. A. Using an AC voltmeter to check AC leakage.

MODEL IDENTIFICATION

— Specification Label —



US, Canadian model: AC: 120V 60Hz 23W
AEP model: AC: 220—230V~50/60Hz 23W
E model: AC: 110—120, 220—240V~50/60Hz 23W

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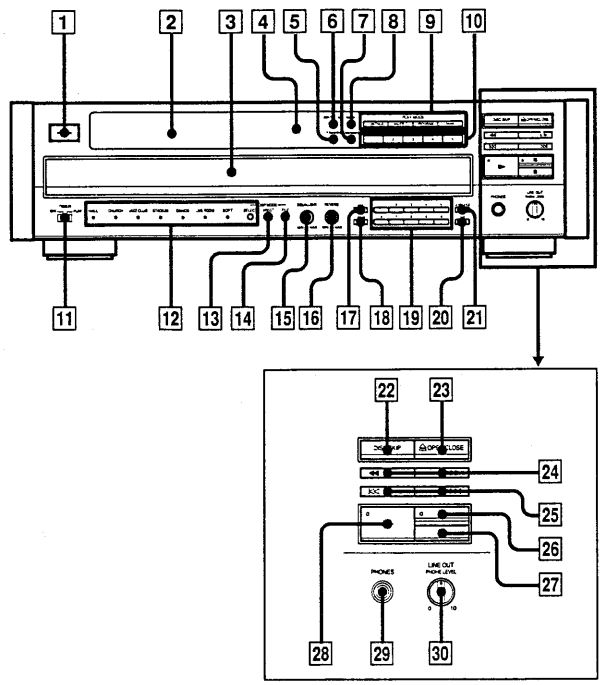
6. ELECTRICAL PARTS LIST 37

This section is extracted from instruction manual.

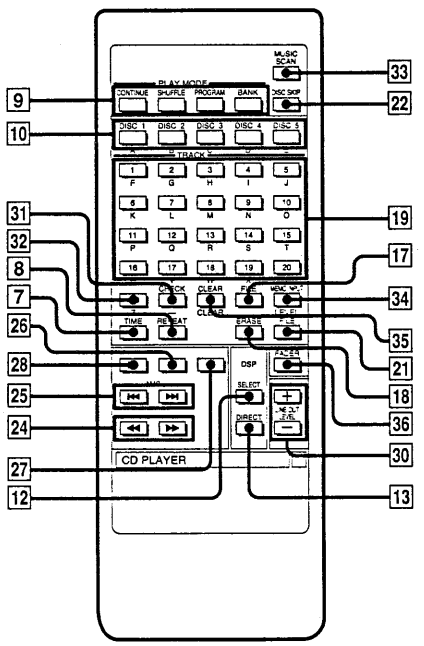
Identifying the Parts

Front Panel A
Remote Commander B

A



B



See the pages indicated in ( ) for details.

1 POWER switch (10)
2 Display (10)
3 Disc tray (10)
4 Remote sensor (8)
5 P.SEARCH button (29)
6 EDIT/TIME FADE button (24, 27)
7 TIME/MEMO button (TIME button on the remote commander) (12)
8 REPEAT button (23)
9 PLAY MODE buttons
CONTINUE button (10)
SHUFFLE button (17)
PROGRAM button (18)
BANK button (33)
10 DISC 1-5 buttons (11)
11 TIMER switch (37)
12 DSP SELECT button and indicators (16, 36)
13 DSP DIRECT button (16)
14 DSP FILE button (36)
15 DSP EQUALIZER level control (16)
16 DSP REVERB level control (16)
17 FILE button (32, 33)
18 ERASE button (30)
19 Numeric buttons (13)
20 >10 (over 10) button (13)
21 LEVEL FILE button (35)
22 DISC SKIP button (10)
23 ⏏ OPEN/CLOSE button (10)
24 ◀◀/▶▶ (manual search) buttons (13)
25 ⏮/⏭ (AMS*) buttons (13)
26 ⏸ (pause) button and indicator (11)
27 ■ (stop) button (11)
28 ▶ (play) button and indicator (11)
29 PHONES jack (11)
30 LINE OUT/PHONE LEVEL control (LINE OUT LEVEL +/– buttons on the remote commander) (11, 35)
31 CHECK button (21)
32 >20 (over 20) button (13)
33 MUSIC SCAN button (22)
34 MEMO INPUT button (31)
35 CLEAR button (21)
36 FADER button (14)

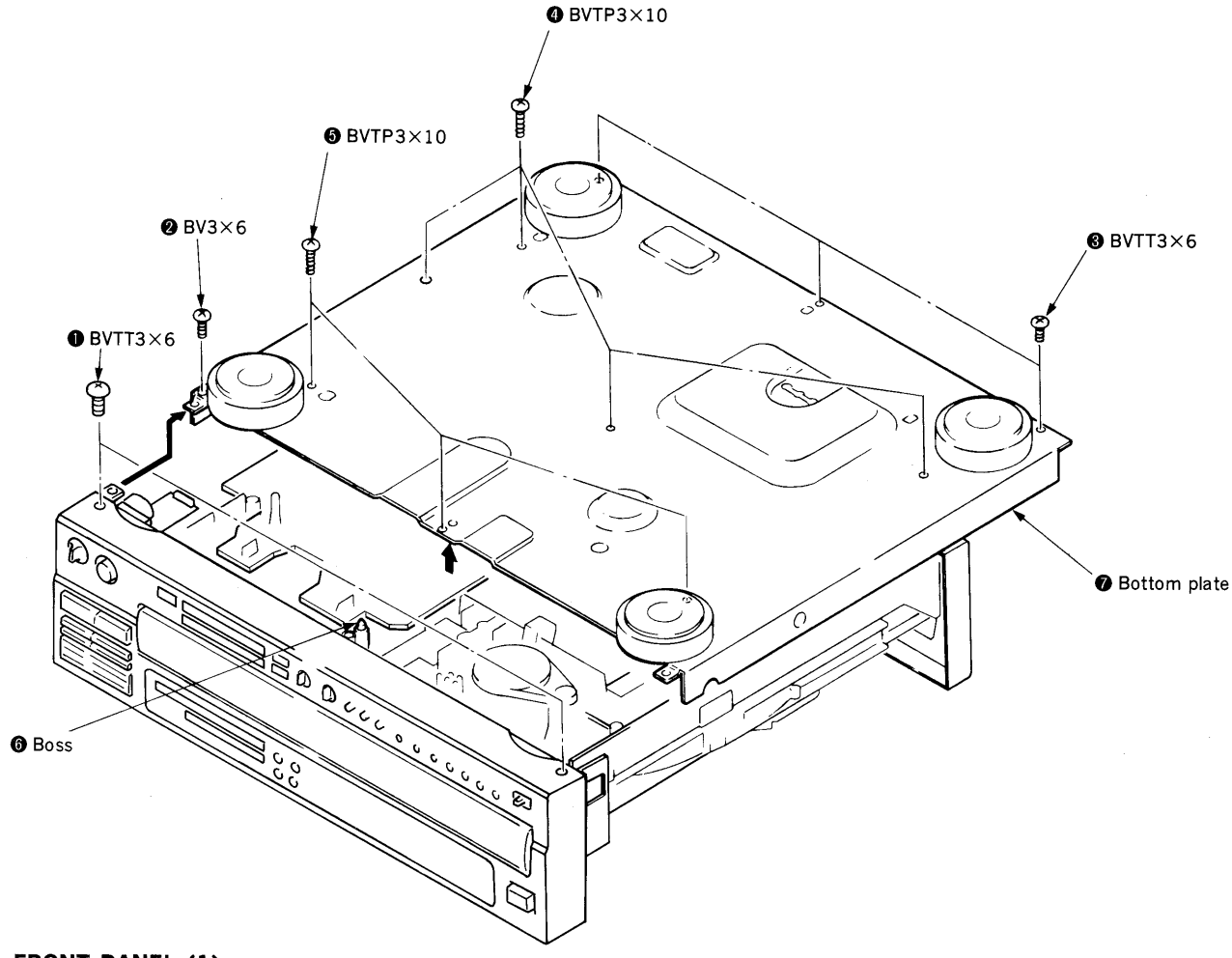
Buttons with orange letters (A, B, ...) on the remote commander are for writing a disc memo (page 31).

* AMS is the abbreviation for Automatic Music Sensor.

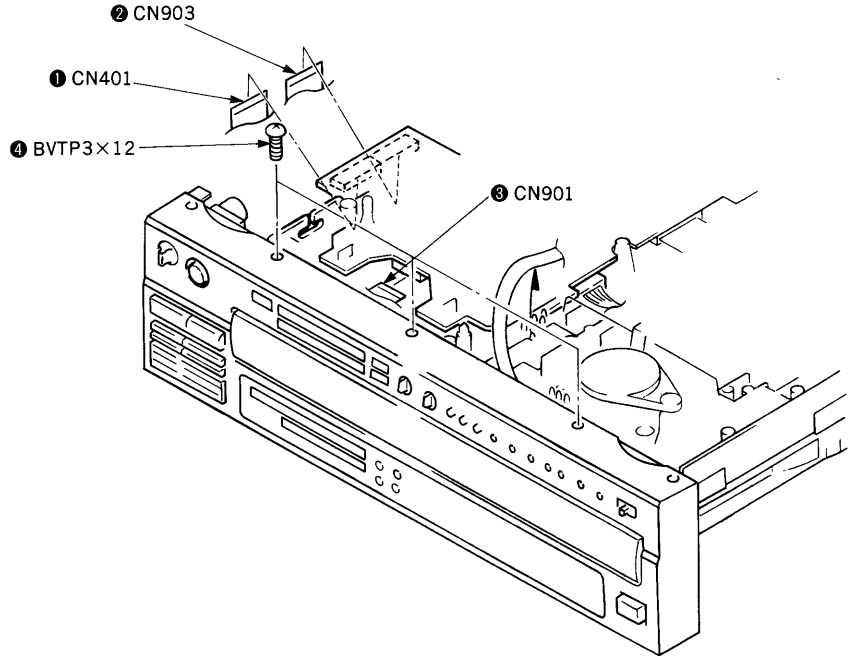
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

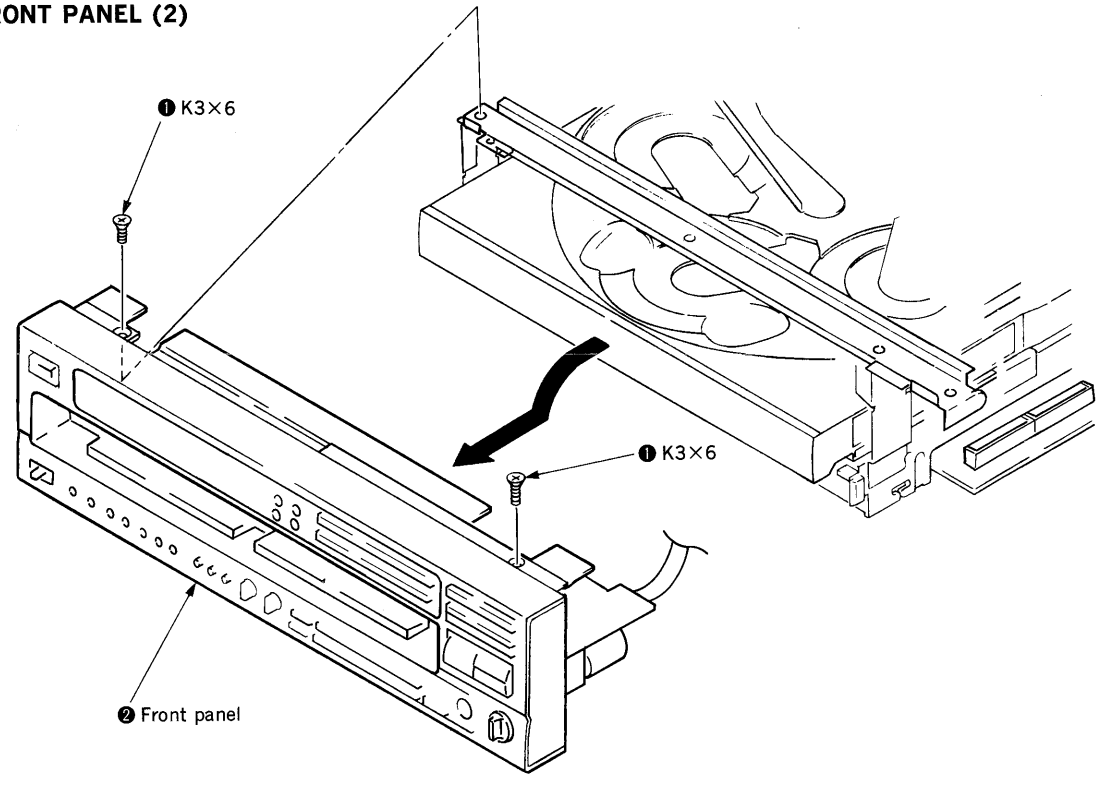
2-1. BOTTOM PLATE



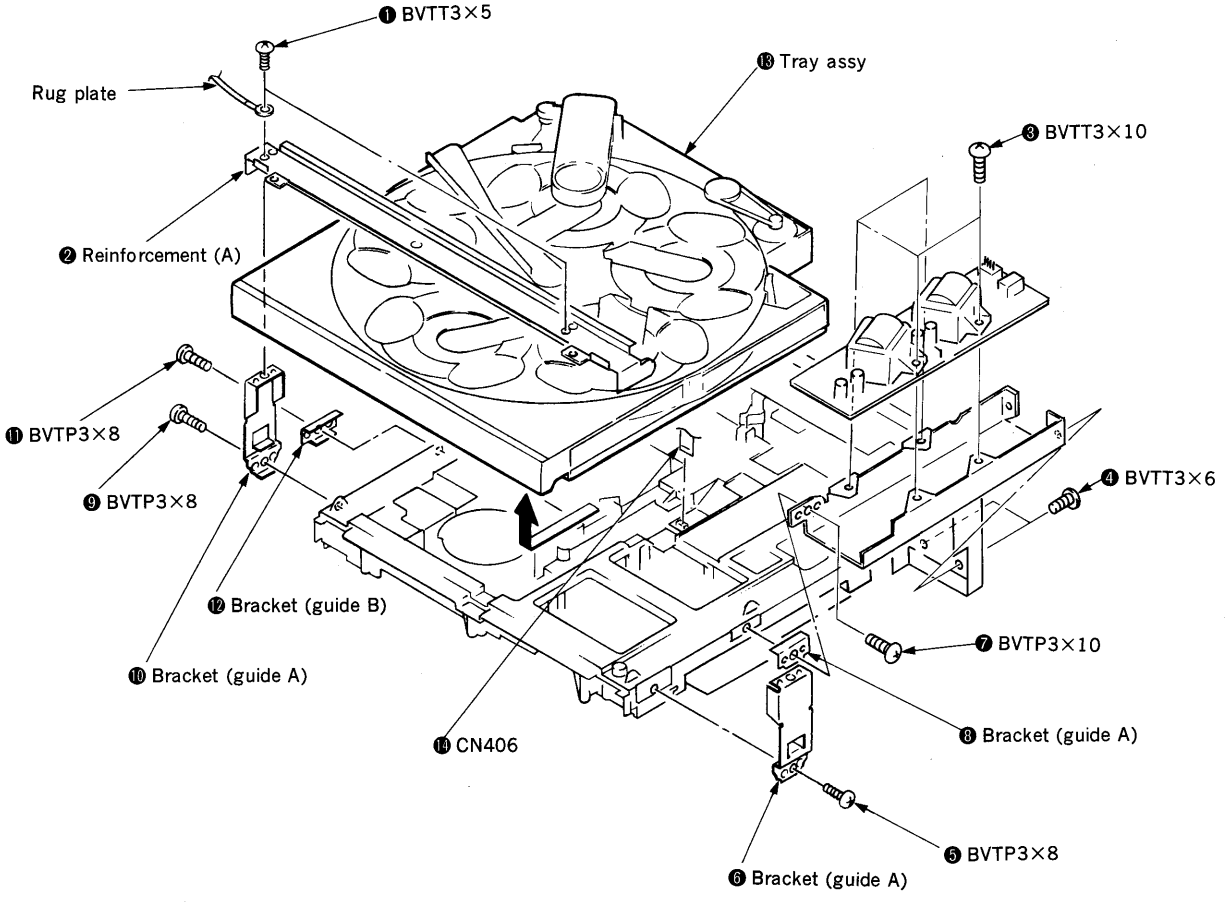
2-2. FRONT PANEL (1)



2-3. FRONT PANEL (2)



2-4. TRAY ASSY

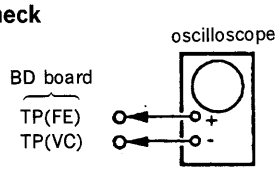


SECTION 3
ELECTRICAL BLOCK CHECKING

Note :

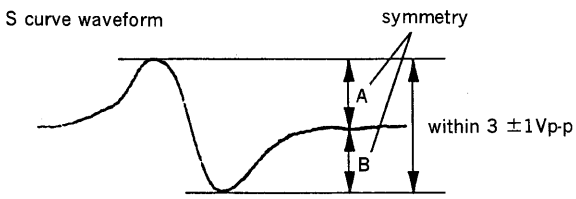
1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FE) on BD board.
2. Connect between test point TP (FEI) and TP (VC) by lead wire.
3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within 3±1Vp-p.

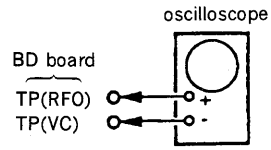


5. After check, remove the lead wire connected in step 2.

Note : • Try to mesure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.

• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

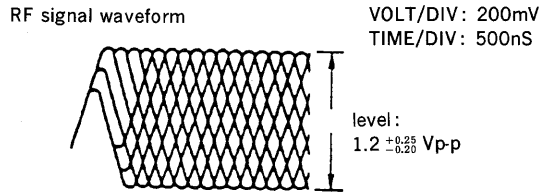


Procedure :

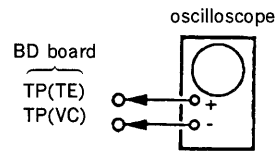
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :

Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

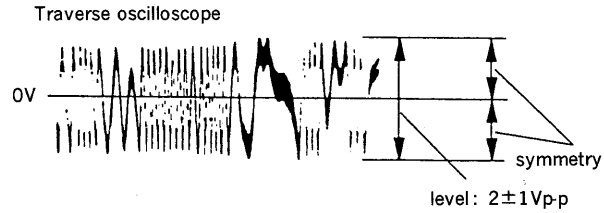


E-F Balance Check



Procedure :

1. Connect test point TP (ADJ) to ground and TP (TEI) to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TE) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

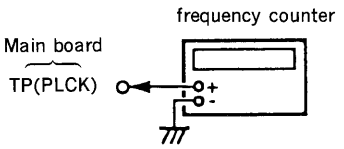


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

1. Connect frequency counter to test point (PLCK) with lead wire.

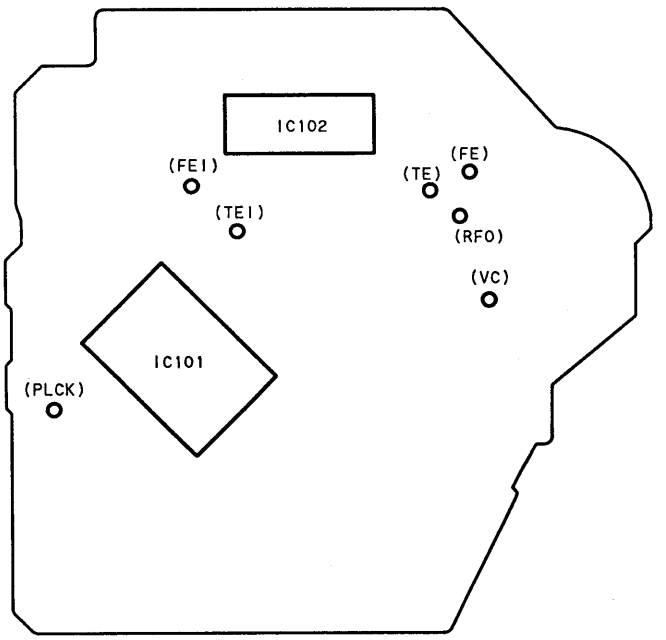


2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4.3218MHz.

Adjustment Locations :

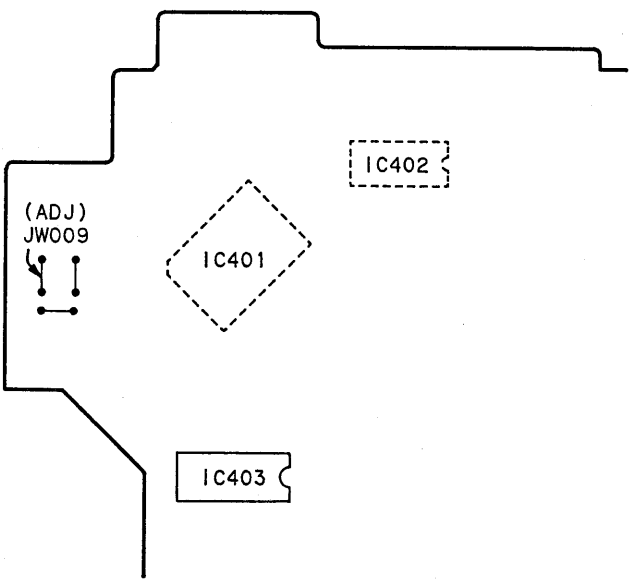
[BD Board]

—Conductor Side—



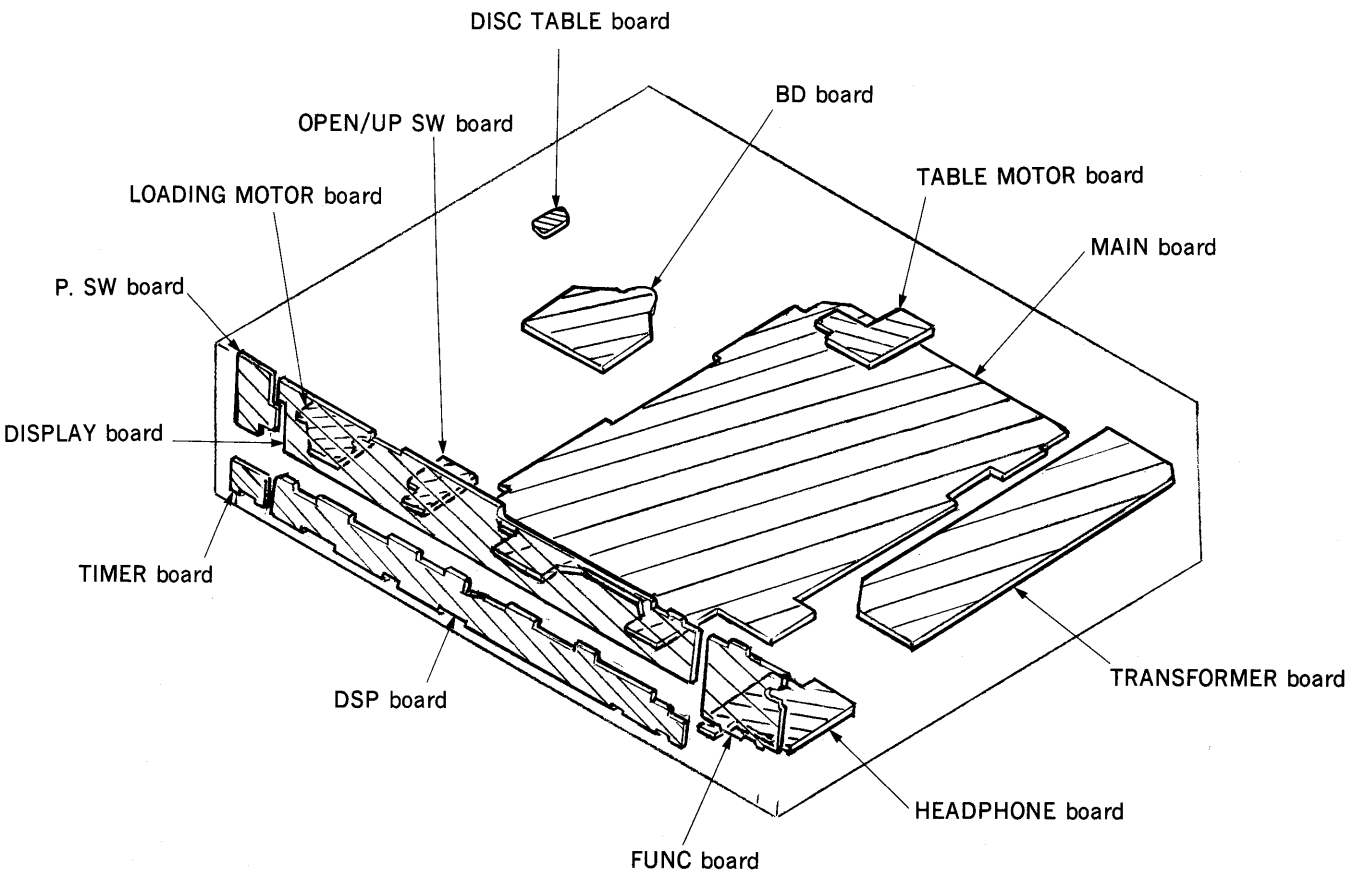
[MAIN Board]

—Component Side—

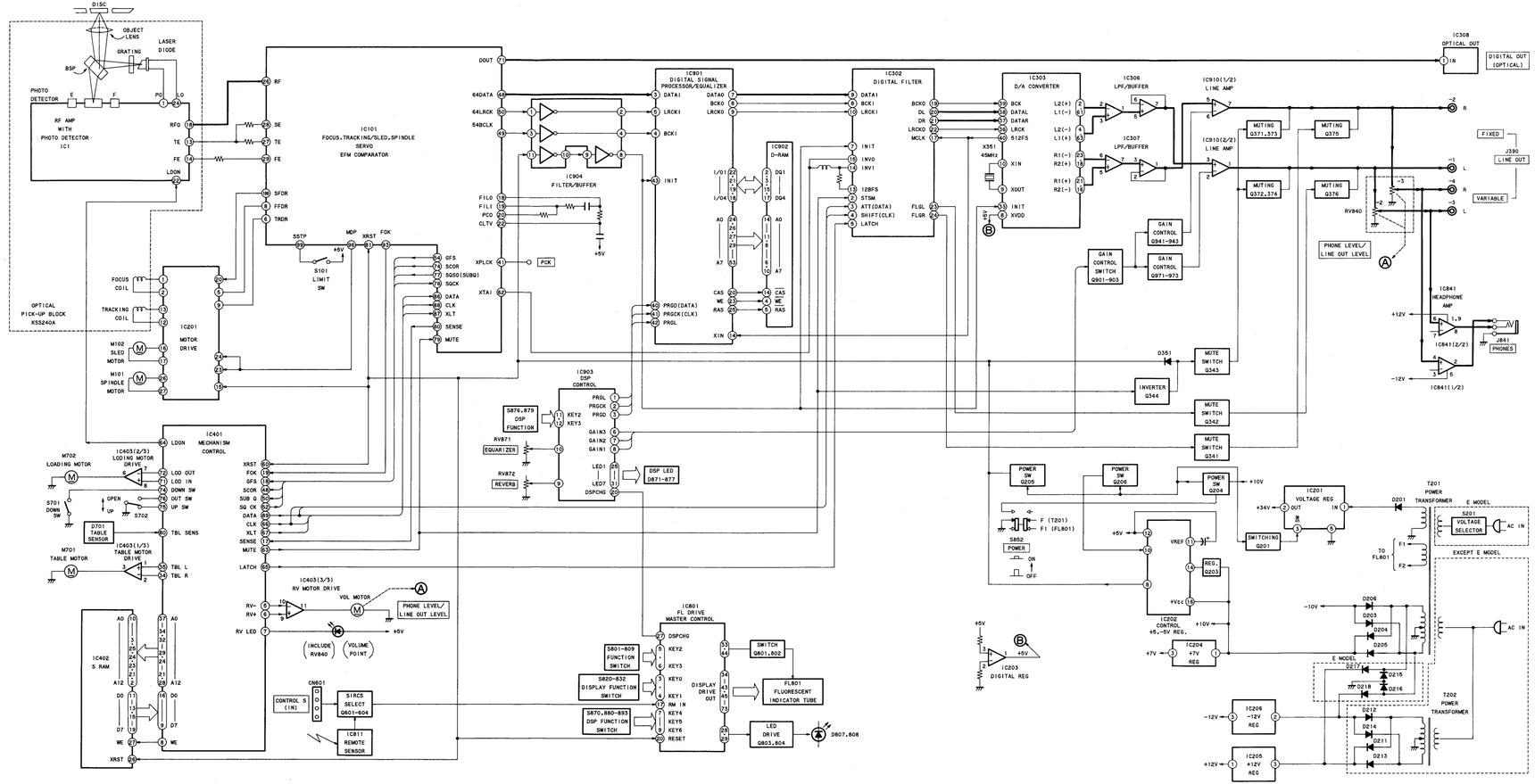


SECTION 4
DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION



4-2. BLOCK DIAGRAM

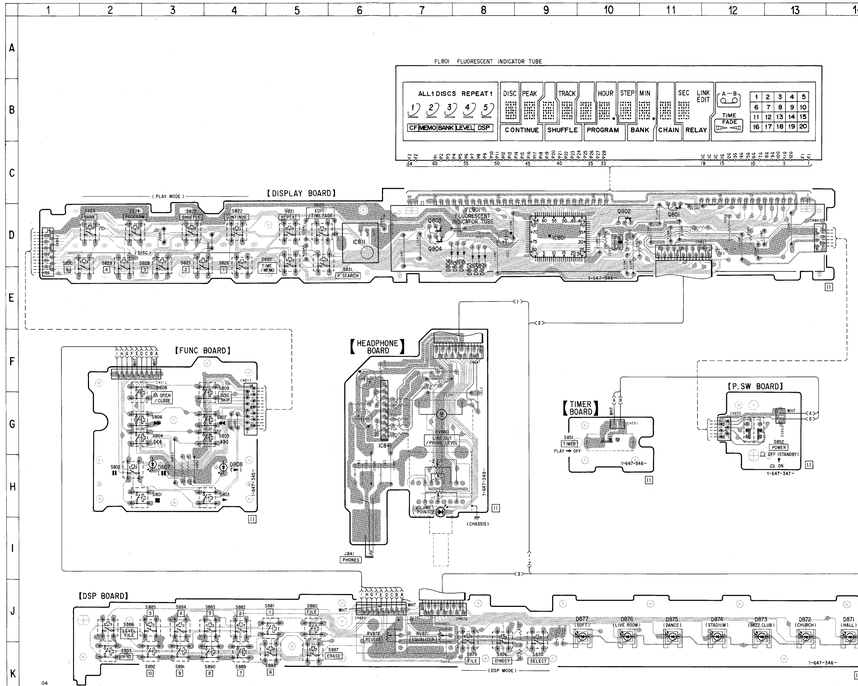


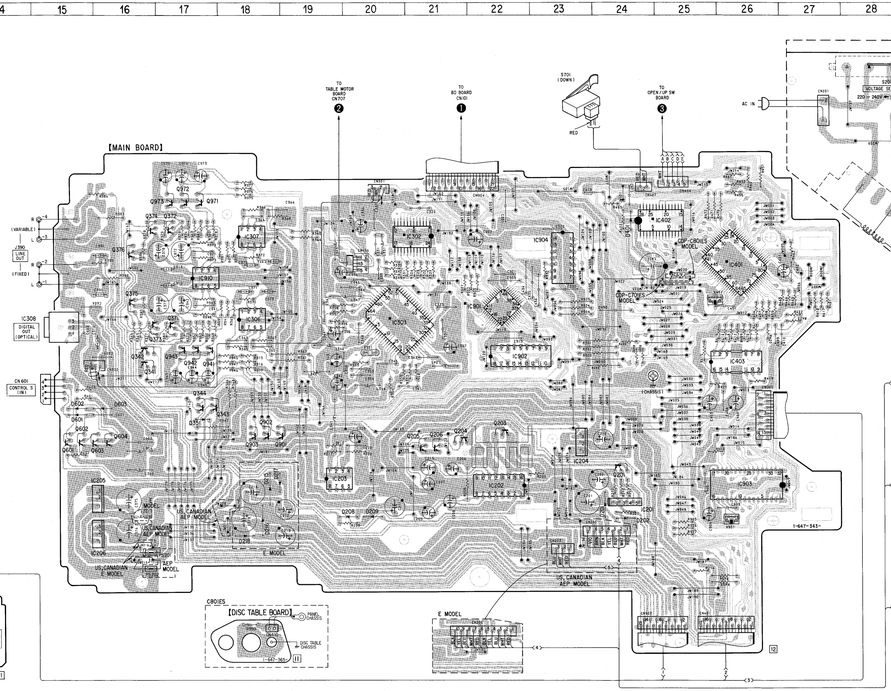
4-3. PRINTED WIRING BOARDS —MAIN SECTION— • Refer to page 27 for Semiconductor Lead Layouts.

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D201	H-24	IC306	E-18
D202	I-24	IC307	D-18
D203	F-31	IC308	E-15
D204	G-31	IC401	D-26
D205	F-31	IC402	D-25
D206	F-31	IC403	F-26
D208	H-20	IC801	D-9
D209	H-20	IC811	D-6
D211	I-31	IC841	G-6
D212	J-31	IC901	E-22
D213	J-31	IC902	F-22
D214	J-31	IC903	H-26
D216	I-18	IC904	D-23
D218	I-18	IC910	E-17
D351	G-17		
D401	D-24	Q201	H-24
D601	G-15	Q203	G-22
D602	G-15	Q204	G-21
D603	G-16	Q205	G-21
D801	D-8	Q206	G-21
D802	D-8	Q341	F-16
D803	D-8	Q342	F-16
D804	D-8	Q343	G-17
D805	D-8	Q344	G-17
D806	D-7	Q371	E-17
D807	H-3	Q372	D-17
D808	H-4	Q373	F-16
D871	J-14	Q374	D-16
D872	J-13	Q375	E-16
D873	J-12	Q376	D-16
D874	J-12	Q601	G-15
D875	J-11	Q602	G-15
D876	J-10	Q603	G-16
D877	J-10	Q604	G-16
		Q901	G-18
IC201	H-24	Q902	G-18
IC202	H-22	Q903	G-18
IC203	H-19	Q941	F-17
IC204	G-24	Q942	F-17
IC205	H-16	Q943	F-17
IC206	I-16	Q971	C-17
IC302	D-21	Q972	C-17
IC303	E-20	Q973	C-17

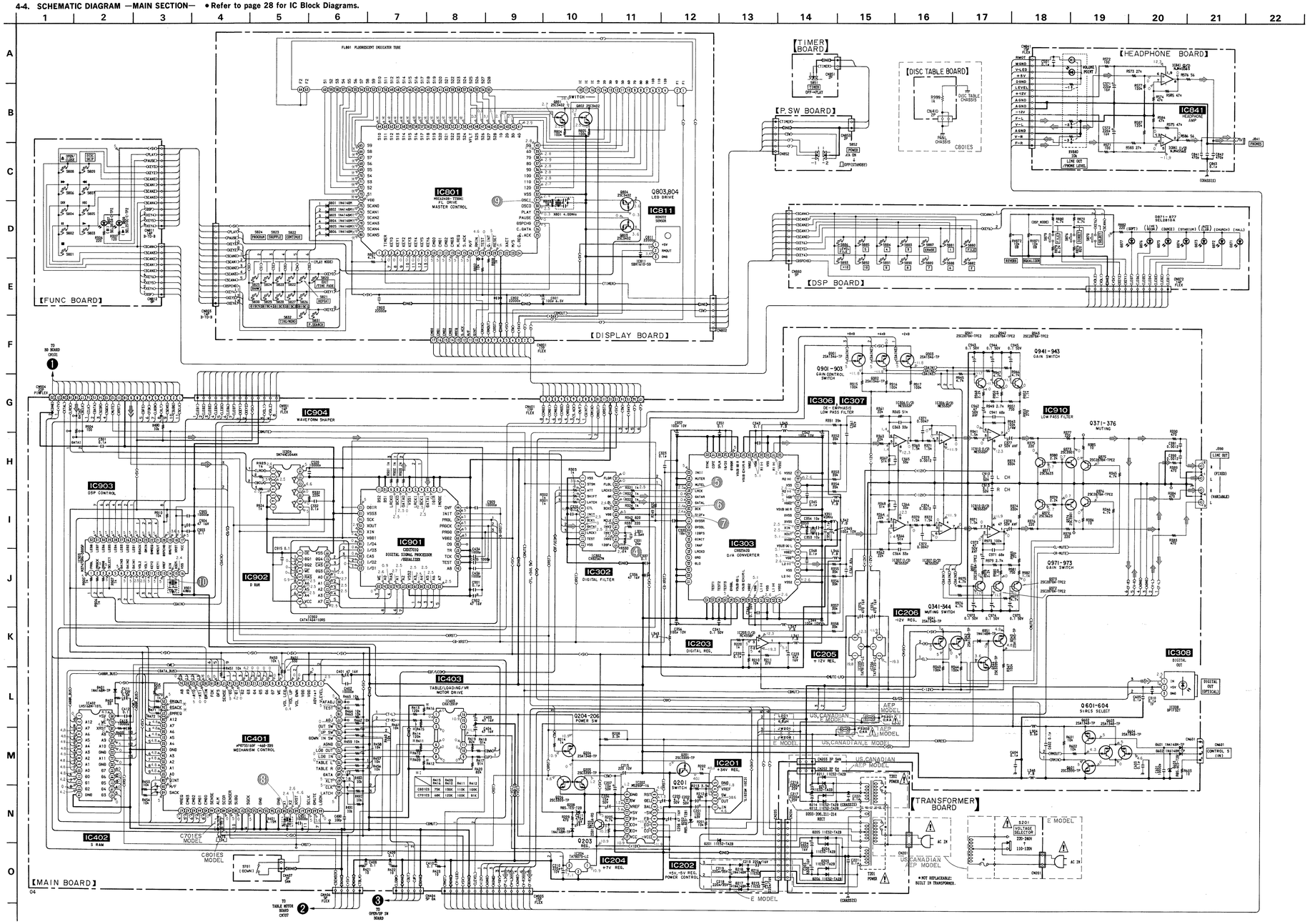
Note:
- ○——: parts extracted from the component side.
- ■ : parts mounted on the conductor side.



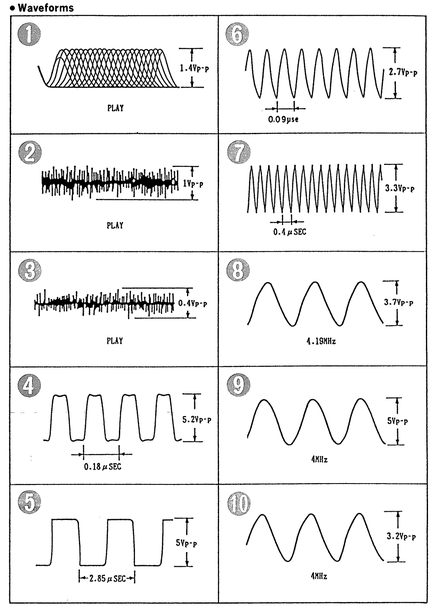


4-4. SCHEMATIC DIAGRAM —MAIN SECTION—

• Refer to page 28 for IC Block Diagrams.



• Waveforms

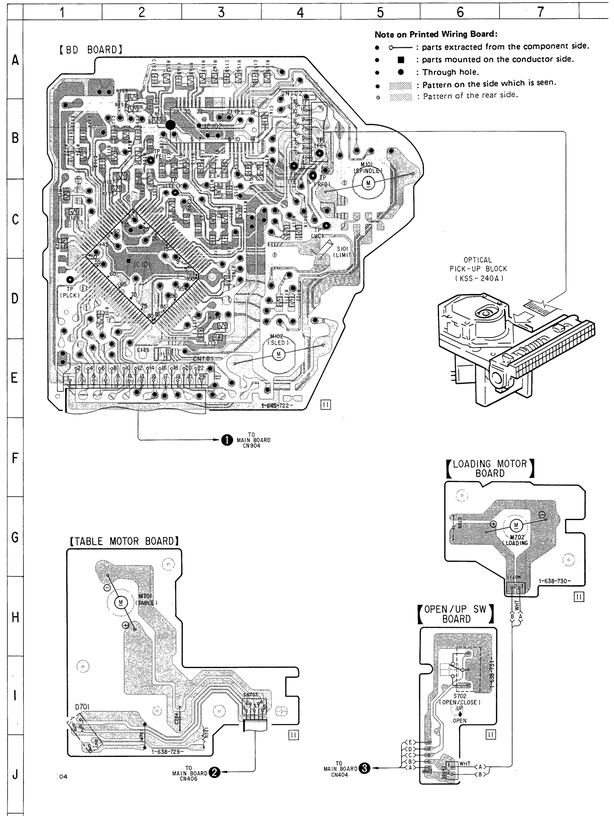


Note:
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.

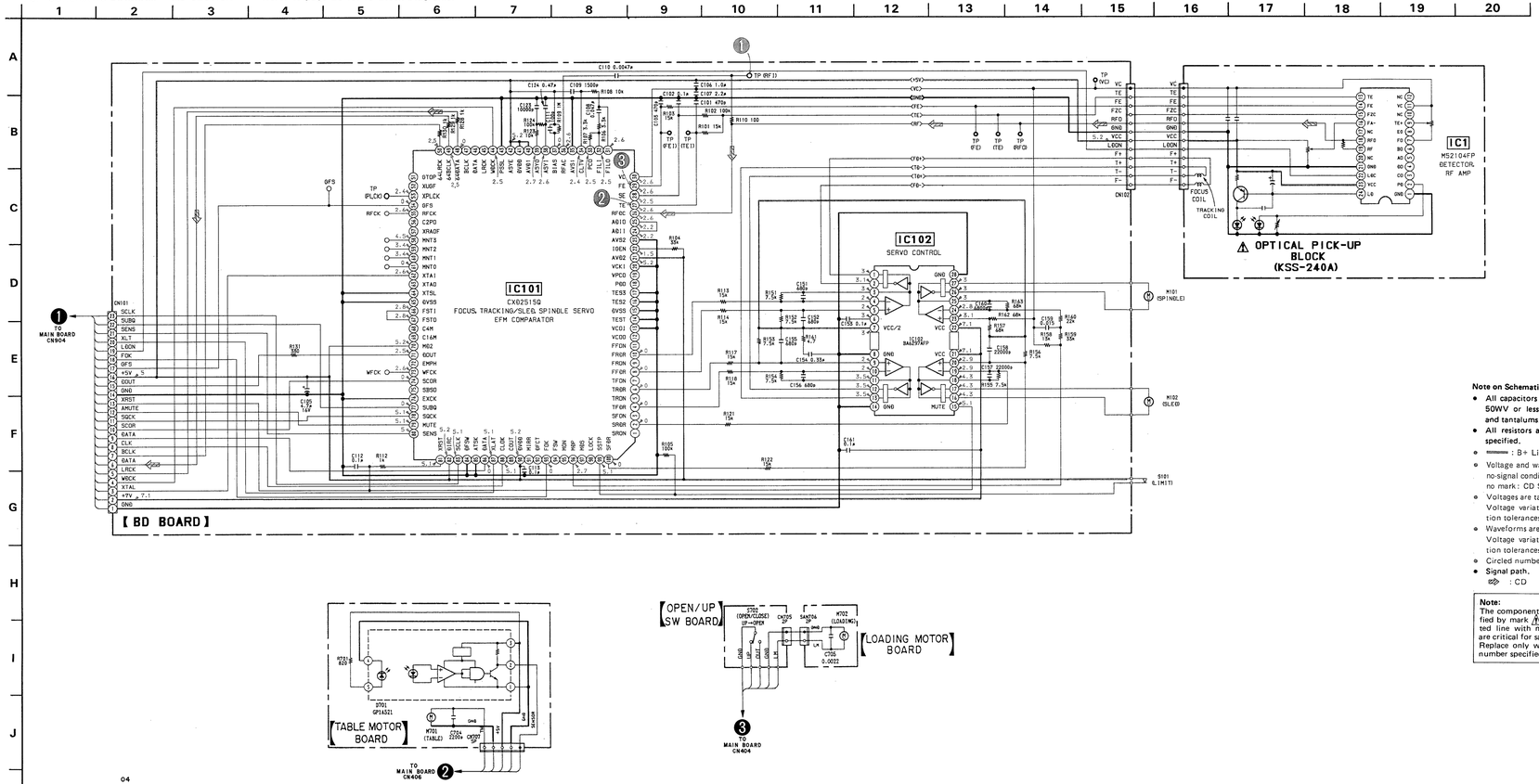
Note:	Note:
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ⎓ : B+ Line
- ⎓ : B− Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark: CD STOP
  ✕ : Impossible measurement point
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇒ : CD
  ⇛ : DIGITAL OUT

4-5. PRINTED WIRING BOARDS —MD SECTION— • Refer to page 27 for Semiconductor Lead Layouts.



4-6. SCHEMATIC DIAGRAM —MD SECTION— • Refer to page 28 for IC Block Diagrams.



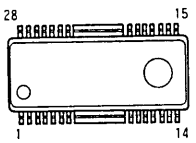
Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantaliums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ——: B+ Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : CD STOP
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ▻▻ : CD

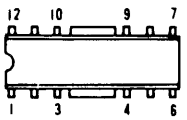
Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-7. SEMICONDUCTOR LEAD LAYOUTS

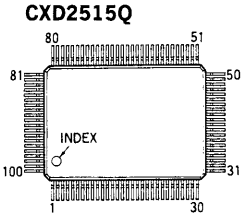
BA6297AFP



CXA1291P

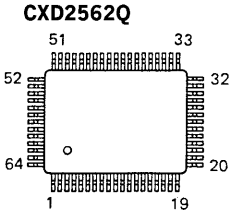


CXD2515Q



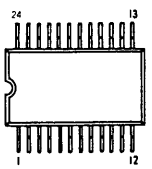
(TOP VIEW)

CXD2562Q



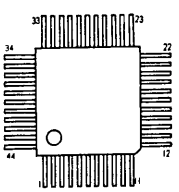
(TOP VIEW)

CXD2567M

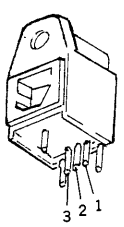


(TOP VIEW)

CXD2701Q

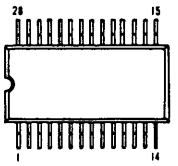


GP1F32T



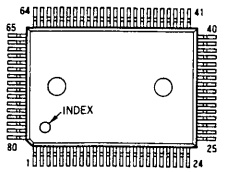
1. Vout
2. Vcc
3. GND

LH5160N-10L



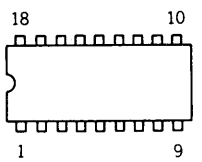
(TOP VIEW)

MSC62408-102V1K
μPD75516GF-468-3B9



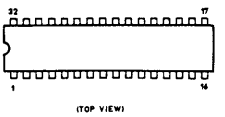
(TOP VIEW)

MS51464-10XC



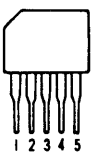
(Top view)

M37470M4-089SP

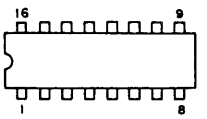


(TOP VIEW)

M5231TL

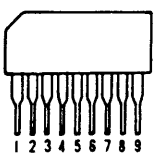


M5290P-16

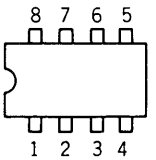


(TOP VIEW)

RC4556S

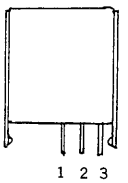


RC5532DD
μPC4558C



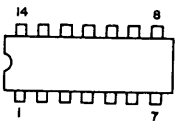
(Top view)

SBX1610-59



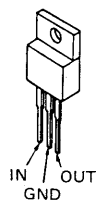
1. Vcc
2. Vout
3. GND

SN74HCU04AN

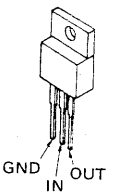


(TOP VIEW)

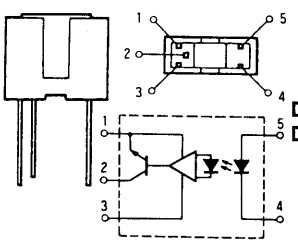
TA7807S-LC
TA7812S-LC



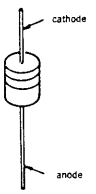
TA7912S-LC



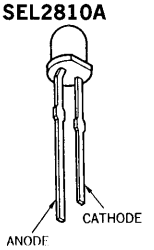
GP1A521



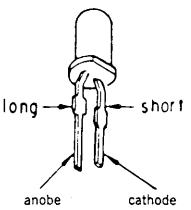
RD5.1ES-B2
RD5.6ES-B
11ES2



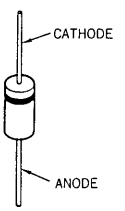
SEL2510C-C
SEL2810A



SEL2810A-C

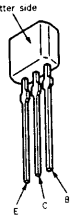


1N4148M

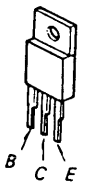


DTA114ES
DTA144ES
DTC114ES
DTC143TS
2SC3622A-LK

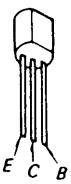
DTA124ES
DTC144ES



2SB1274SA-RS

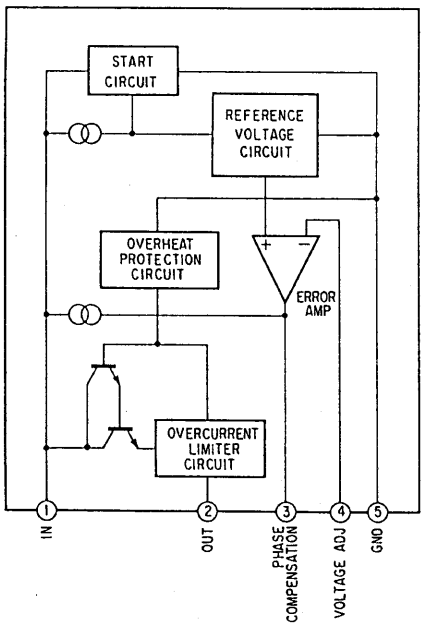


2SC2878-AB

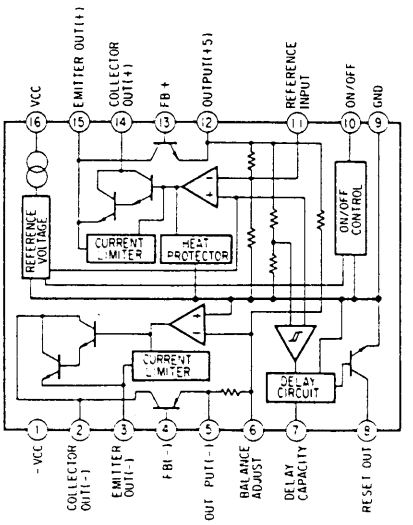


• IC Block Diagrams

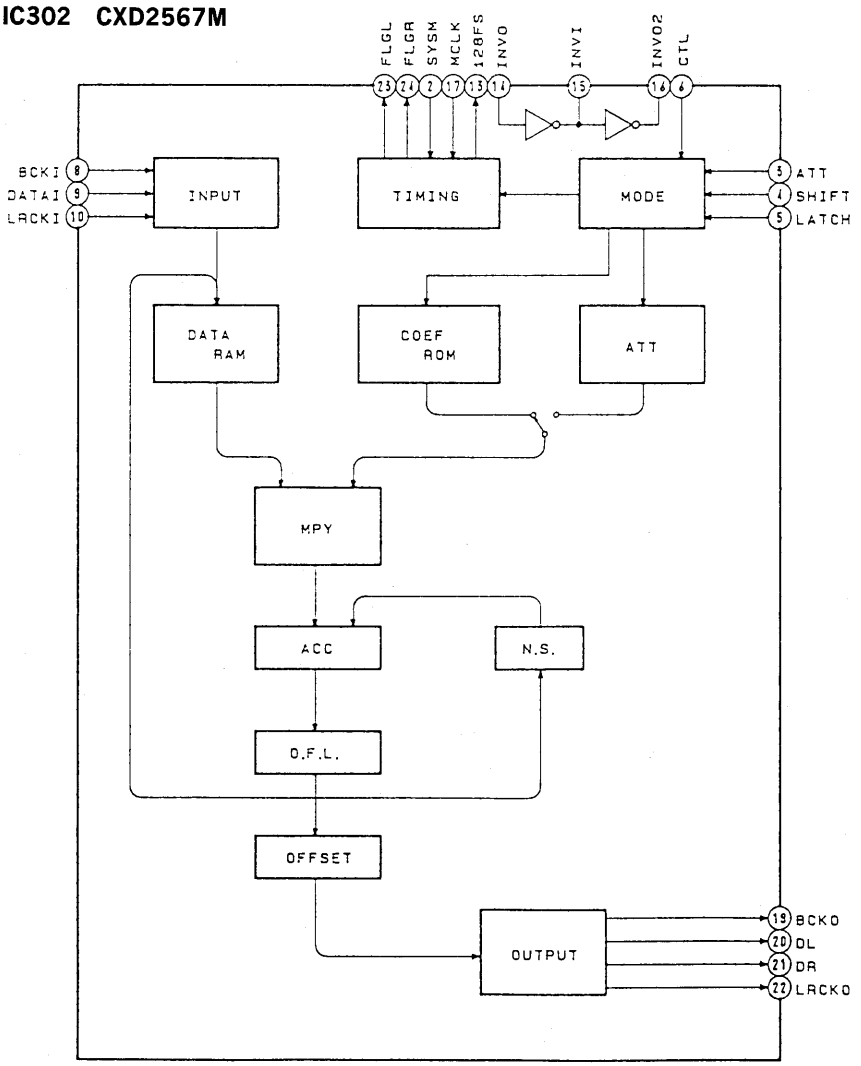
IC201 M5231TL



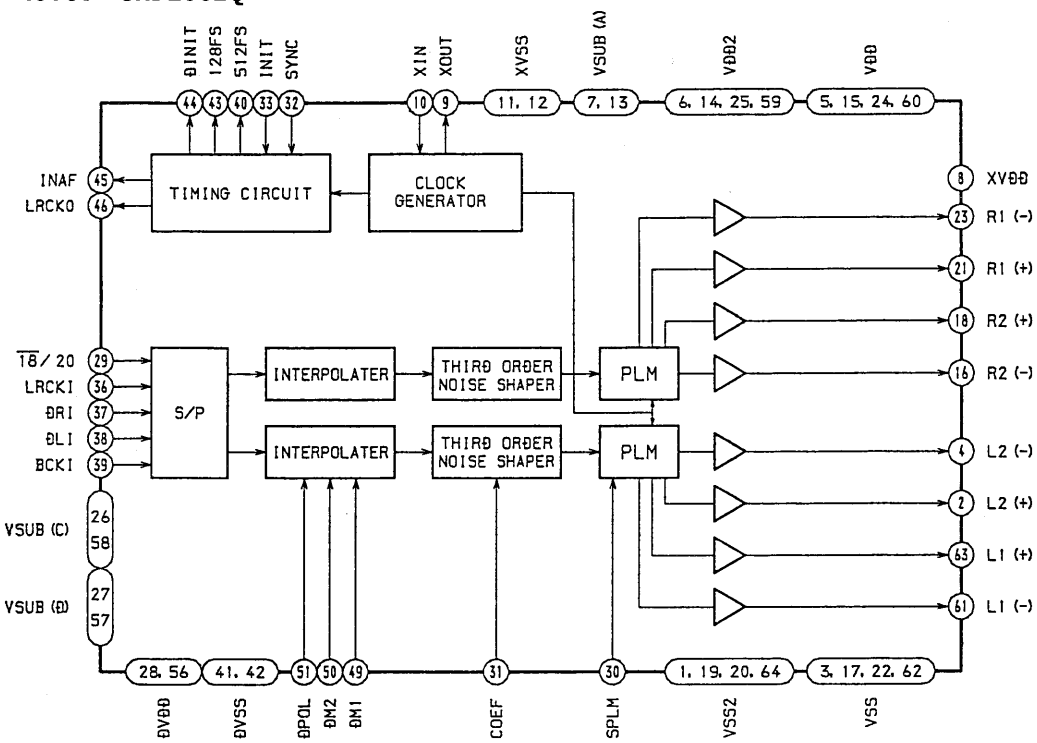
IC202 M5290P-16



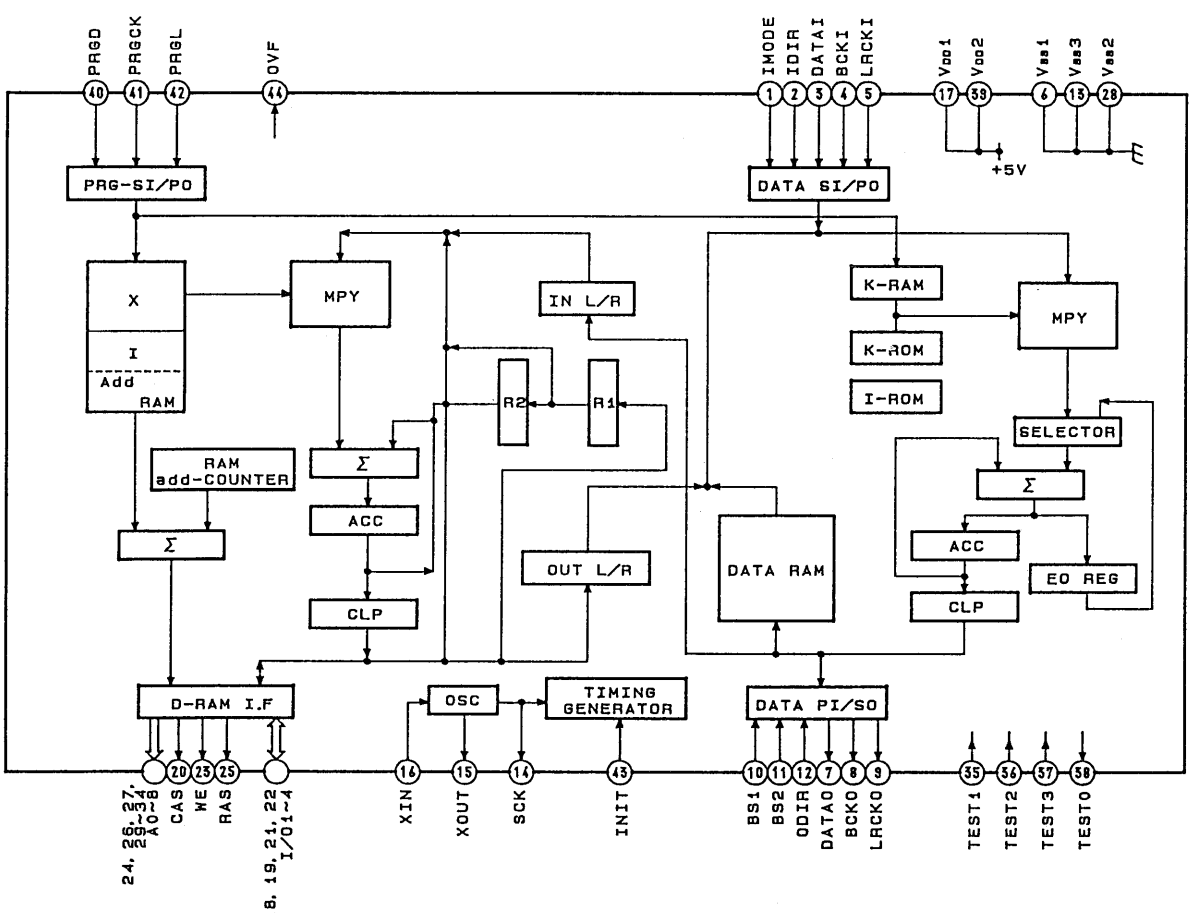
IC302 CXD2567M



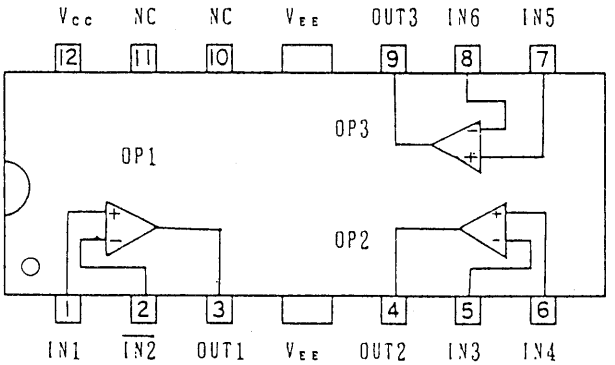
IC303 CXD2562Q



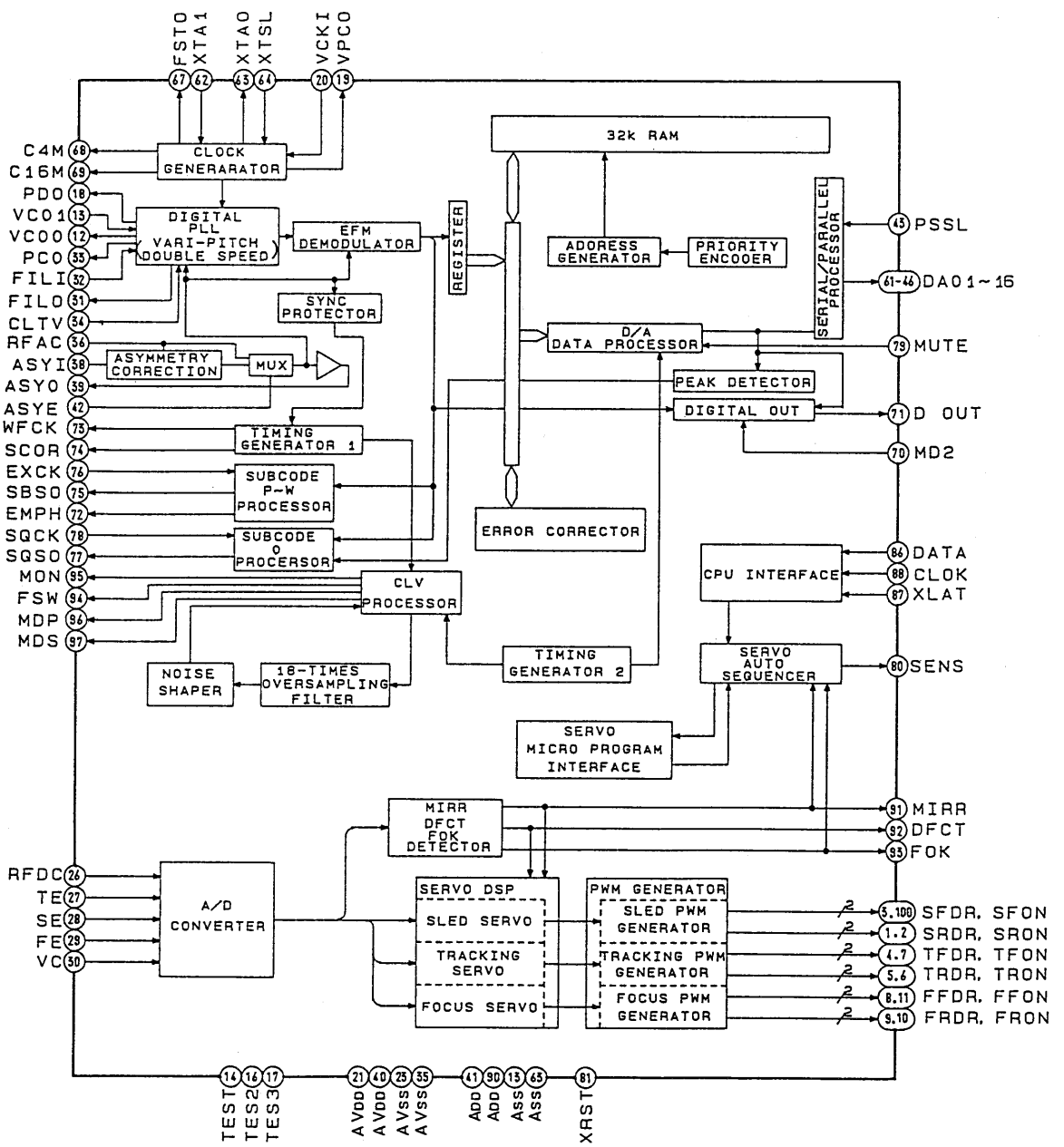
IC901 CXD2701Q



IC403 CXA1291P



IC101 CXD2515Q

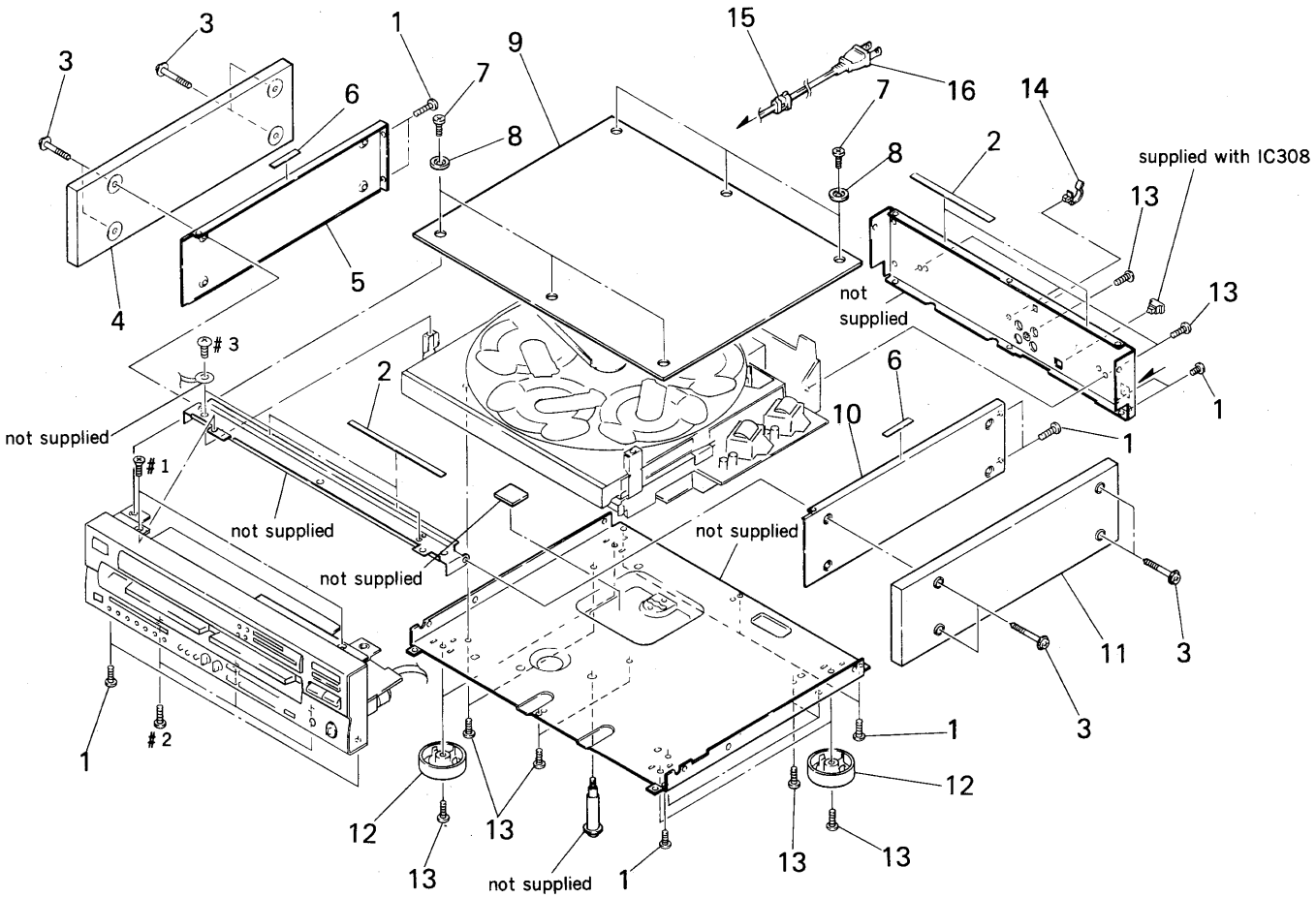


SECTION 5
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Hardware (# mark) list is given in the last of this parts list.

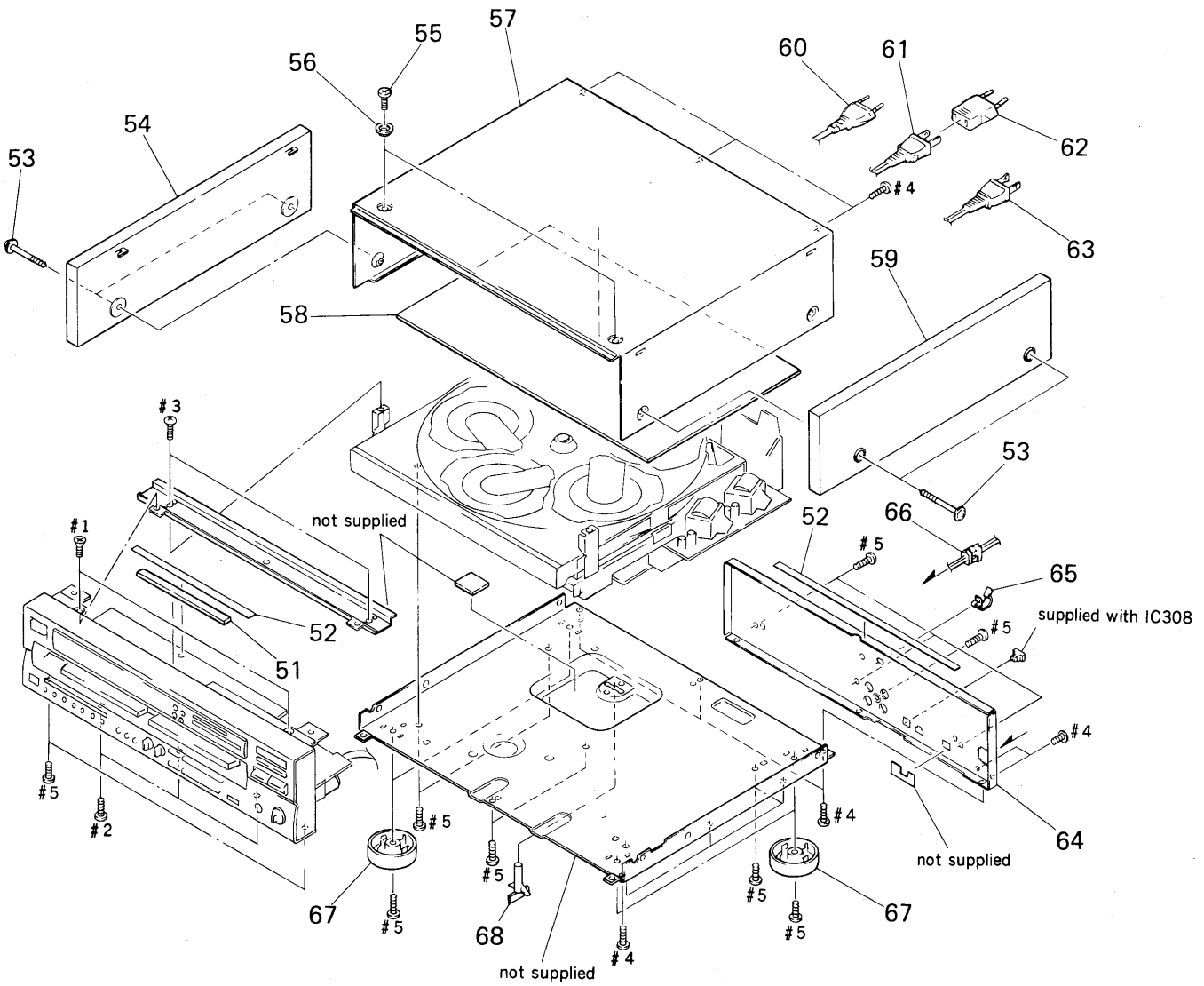
The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. CABINET SECTION (C801ES)



Ref. No.	Part No.	Description	Remark
1	3-703-108-31	SCREW +BV 3X6, S TIGHT	
* 2	4-927-653-01	SHEET (F/P)	
3	4-933-446-01	SCREW (SIDE PANEL)	
4	X-4941-640-1	PANEL (L) ASSY, SIDE	
* 5	4-945-428-11	PLATE (L), SIDE	
6	3-831-441-XX	CUSHION (B), CABINET	
7	4-924-242-11	SCREW (M3X6), FLAT HEAD	
8	4-928-025-11	ESCUTCHEON (TOP PLATE)	
9	4-945-422-01	PLATE, TOP	
* 10	4-945-429-11	PLATE (R), SIDE	
11	X-4941-641-1	PANEL (R) ASSY, SIDE	
12	X-4943-497-1	FOOT ASSY	
13	4-951-621-01	SCREW	
* 14	4-949-235-01	HOOK	
* 15	3-703-244-00	BUSHING (2104), CORD	
⚠16	1-559-583-21	CORD, POWER	

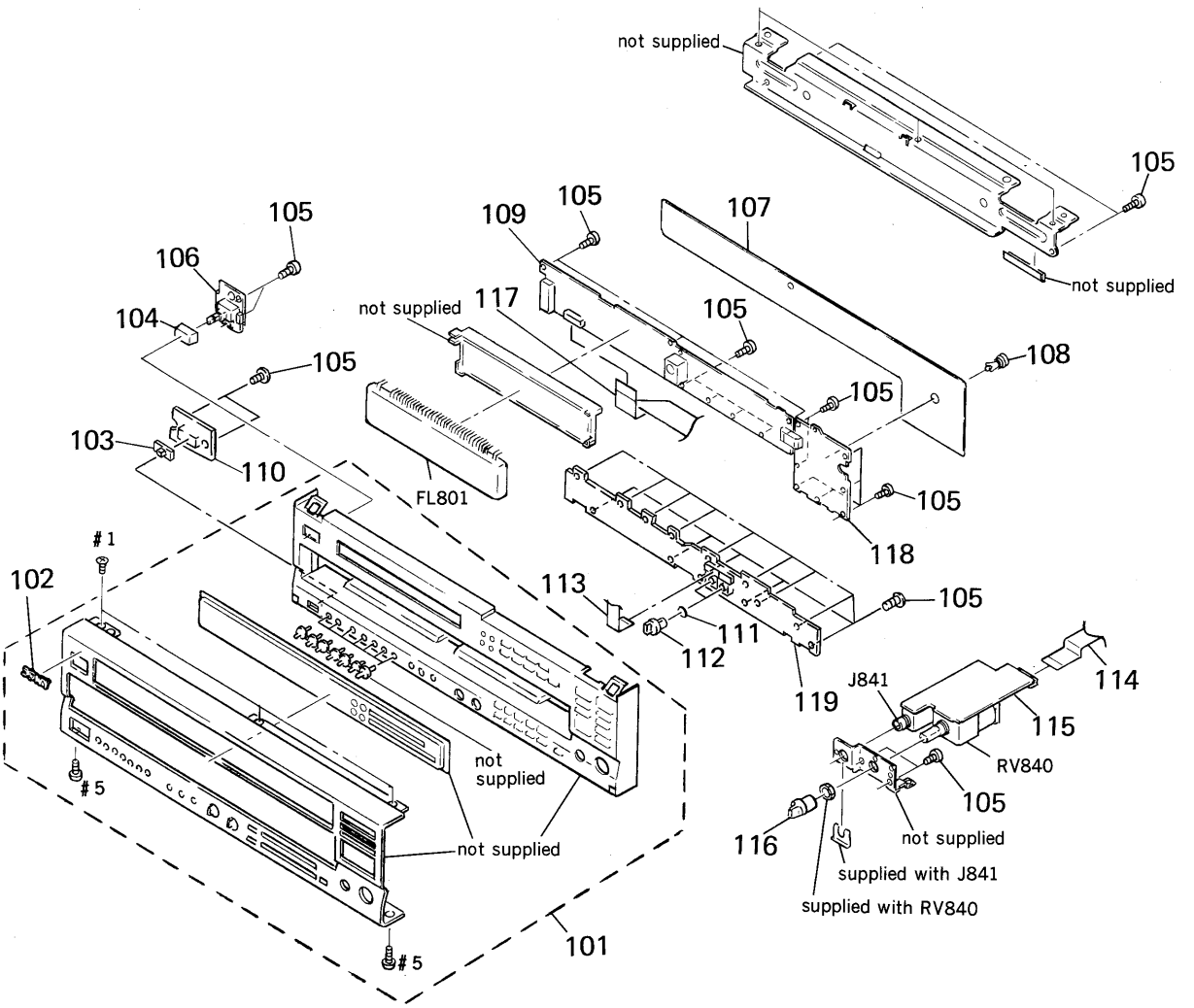
5-2. CABINET SECTION (C701ES)



The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
* 51	4-929-561-01	CUSHION (CASE)	
* 52	4-927-653-01	SHEET (F/P)	
53	4-933-446-01	SCREW (SIDE PANEL)	
54	X-4924-465-1	PANEL (L) ASSY, SIDE	
55	4-924-242-11	SCREW (M3X6), FLAT HEAD	
56	4-928-025-11	ESCUTCHEON (TOP PLATE)	
* 57	4-937-934-01	CASE	
58	A-4675-309-A	REINFORCEMENT (TOP PLATE) ASSY	
59	X-4924-466-1	PANEL (R) ASSY, SIDE	
⚠60	1-558-568-21	CORD, POWER (AEP)	
⚠61	1-558-181-21	CORD, POWER (E)	
⚠62	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
⚠63	1-559-583-21	CORD, POWER (US, Canadian)	
* 64	4-957-431-01	PANEL, BACK (US, Canadian)	
* 64	4-957-431-11	PANEL, BACK (AEP)	
* 64	4-957-431-21	PANEL, BACK (E)	
* 65	4-949-235-01	HOOK	
* 66	3-703-244-00	BUSHING (2104), CORD	
67	X-4943-497-1	FOOT ASSY	
68	4-937-945-01	PLATE (TRANSPORT), LOCK	

5-3. FRONT PANEL SECTION

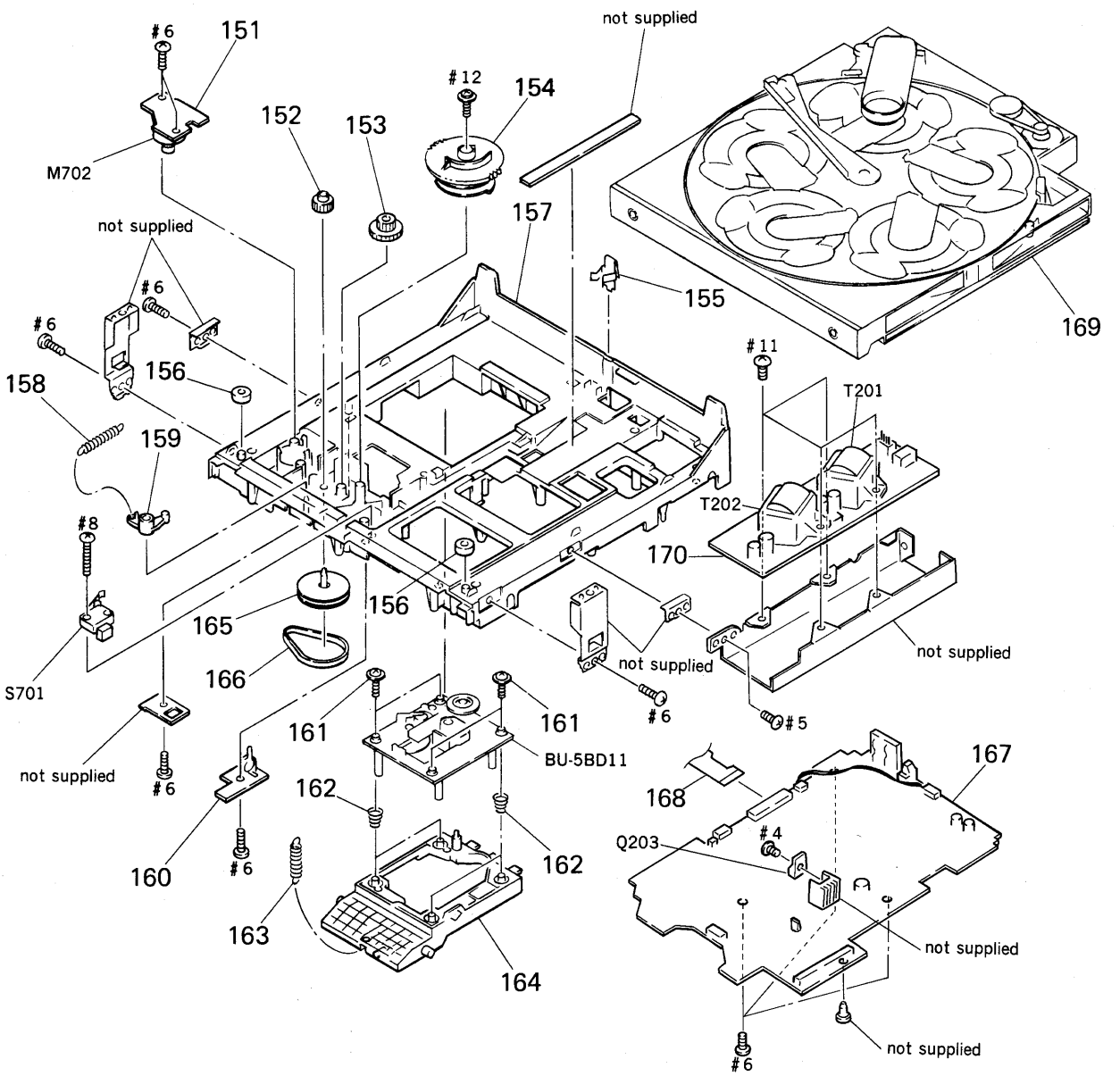


Ref. No.	Part No.	Description	Remark
101	A-4660-340-A	PANEL ASSY, FRONT (C701ES:US, Canadian)	
101	A-4660-342-A	PANEL ASSY, FRONT (C701ES:AEP, E)	
101	A-4660-345-A	PANEL ASSY, FRONT (C801ES)	
102	4-942-568-01	EMBLEM (NO. 5), SONY	
103	4-922-518-11	KNOB (TIMER)	
104	4-922-921-01	BUTTON (POWER)	
105	4-951-620-01	SCREW (2.6X8), +BVTP	
* 106	1-647-347-11	P. SW BOARD	
107	4-957-458-01	SHEET (PANEL)	
108	3-531-576-11	RIVET	
* 109	A-4649-638-A	DISPLAY BOARD, COMPLETE	
* 110	1-647-348-11	TIMER BOARD	

Ref. No.	Part No.	Description	Remark
111	3-354-981-01	SPRING (SUS), RING	
112	4-944-154-01	KNOB (DSP)	
113	1-751-045-11	WIRE (FLAT TYPE) (14 CORE)	
114	1-751-044-11	WIRE (FLAT TYPE) (15 CORE)	
* 115	1-647-349-11	HEADPHONE BOARD	
116	A-4660-389-A	KNOB (HP) ASSY	
117	1-751-046-11	WIRE (FLAT TYPE) (17 CORE)	
* 118	1-647-345-11	FUNC BOARD	
* 119	1-647-346-11	DSP BOARD	
FL801	1-519-714-11	INDICATOR TUBE, FLUORESCENT	
J841	1-750-162-61	JACK (LARGE TYPE) (PHONES)	
RV840	1-223-322-11	RES, VAR, CARBON 10K/10K/10K (LINE OUT/PHONE LEVEL)	

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

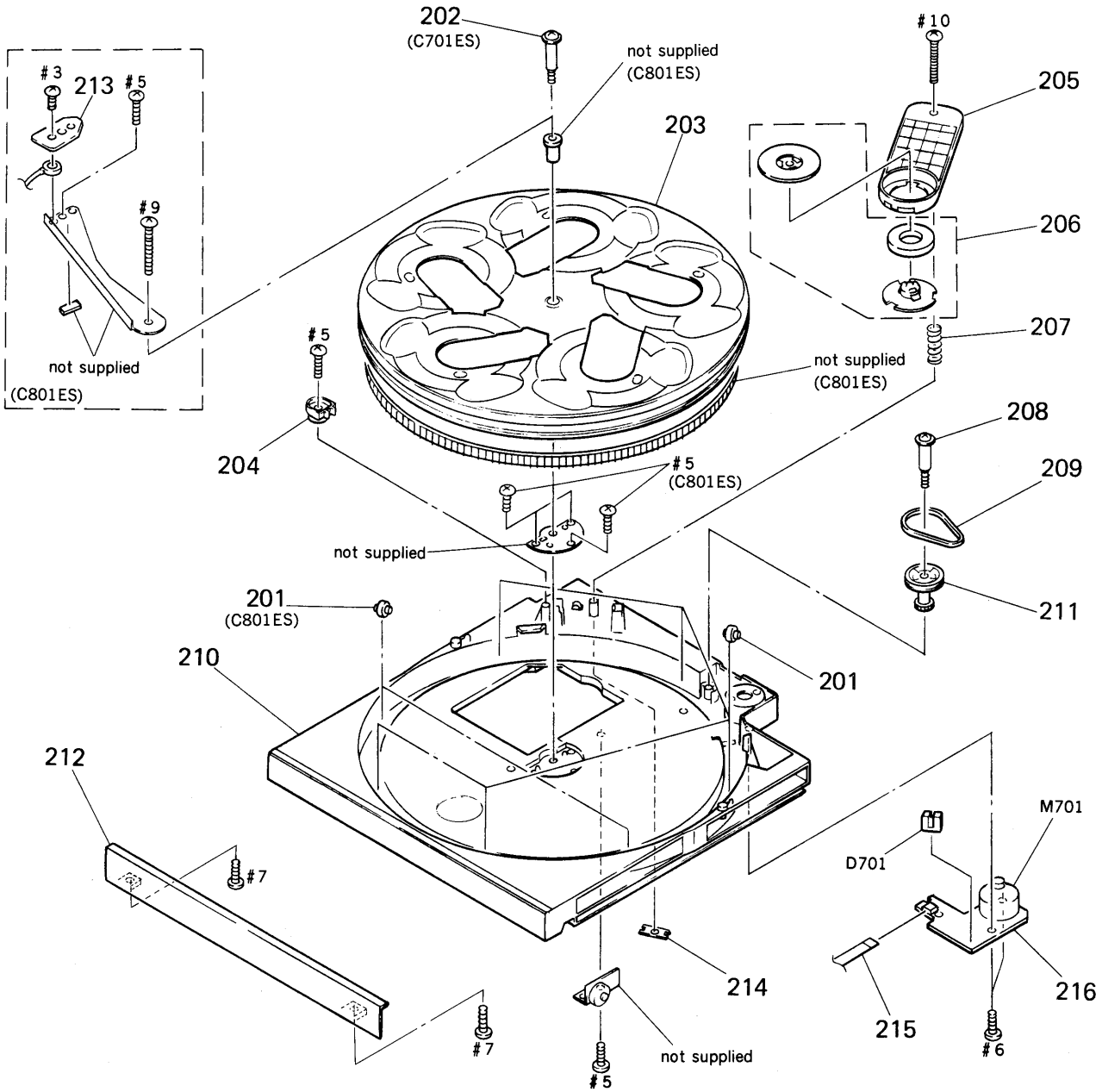
5-4. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
* 151	1-638-730-11	LOADING MOTOR BOARD	
152	4-934-375-01	GEAR (LOADING B)	
153	4-934-381-01	GEAR (LOADING C)	
154	4-934-391-01	GEAR (LOADING A)	
* 155	4-943-996-06	SPRING, LEAF	
* 156	4-951-619-01	CUSHION (A)	
* 157	4-943-997-01	CHASSIS	
158	4-924-412-01	SPRING (B), TENSION	
159	4-917-519-01	LEVER, SET	
* 160	1-638-731-11	OPEN/UP SW BOARD	
161	4-933-134-01	SCREW (+PTPWH M2.6X6)	
162	4-958-593-01	SPRING (BU), COMPRESSION	
163	4-937-911-01	SPRING, TENSION	
* 164	4-934-373-01	BRACKET (BU)	
165	4-944-491-01	PULLEY (LOADING A)	
166	4-949-430-01	BELT (G RIB)	

Ref. No.	Part No.	Description	Remark
* 167	A-4649-629-A	MAIN BOARD, COMPLETE (C701ES:US, Canadian)	
* 167	A-4649-630-A	MAIN BOARD, COMPLETE (C701ES:E)	
* 167	A-4649-634-A	MAIN BOARD, COMPLETE (C801ES)	
* 167	A-4649-780-A	MAIN BOARD, COMPLETE (C701ES:AEP)	
168	1-537-501-11	JUMPER, FILM (WITH TERMINAL)	
169	A-4660-338-A	TABLE ASSY (CDM16P1), DISC (C701ES)	
169	A-4660-348-A	TABLE ASSY (CDM16K1), DISC (C801ES)	
* 170	1-647-342-11	TRANSFORMER BOARD	
M702	A-4604-871-A	MOTOR ASSY, LOADING	
Q203	8-729-821-73	TRANSISTOR 2SB1274SA-RS	
S701	1-572-713-11	SWITCH, PUSH (WITH CONNECTOR) (DOWN)	
⚠T201	1-423-508-11	TRANSFORMER, POWER (US, Canadian)	
⚠T201	1-423-509-11	TRANSFORMER, POWER (AEP)	
⚠T201	1-423-510-11	TRANSFORMER, POWER (E)	
⚠T202	1-423-506-11	TRANSFORMER, POWER (US, Canadian)	
⚠T202	1-423-507-11	TRANSFORMER, POWER (AEP)	

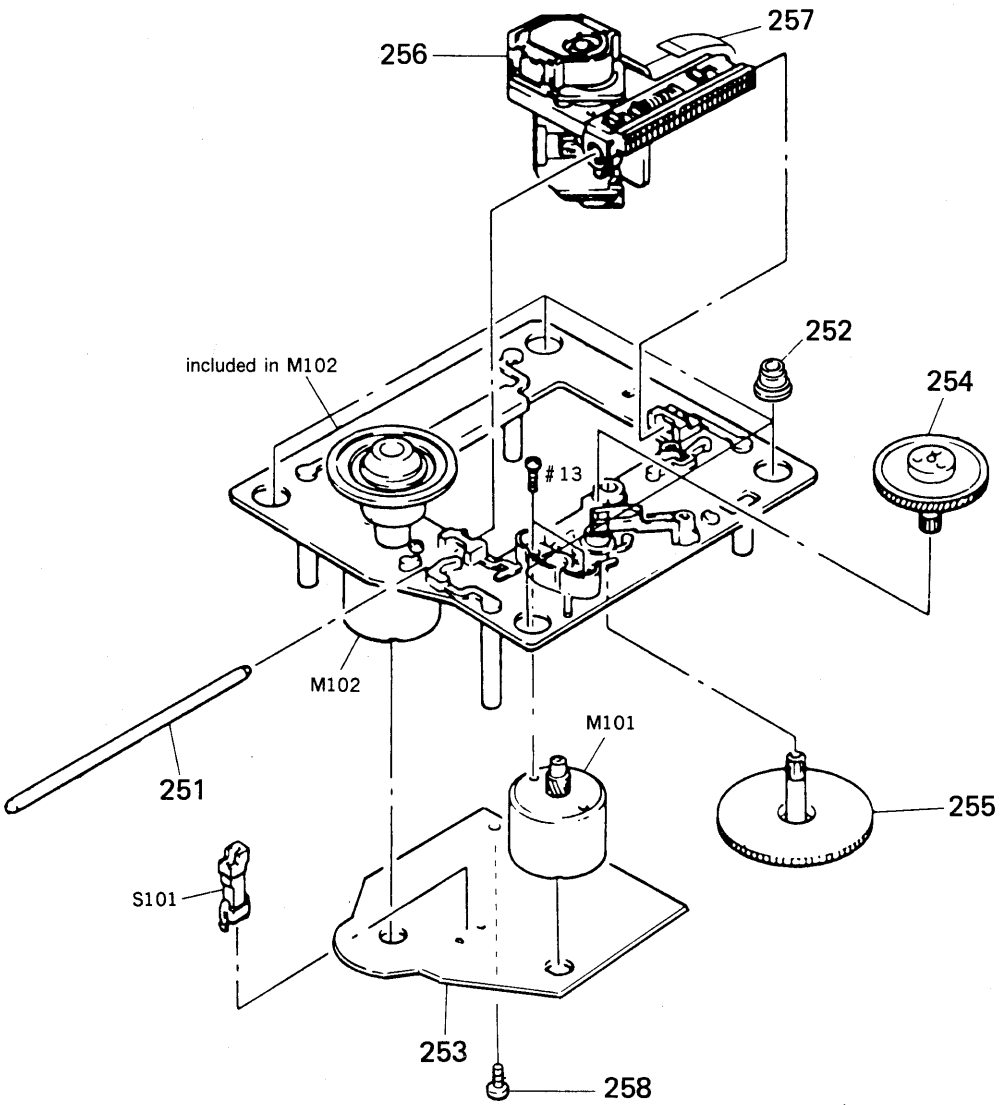
5-5. TRAY SECTION



Ref. No.	Part No.	Description	Remark
201	X-4924-457-1	ROLLER ASSY	
202	4-926-384-01	SCREW, STEP (C701ES)	
203	4-926-383-11	TABLE (B), DISC (C701ES)	
203	4-944-305-01	TABLE (B), DISC (C801ES)	
* 204	4-949-226-01	PLATE, LOCK	
* 205	4-930-506-02	BRACKET (PRESS PULLEY)	
* 206	1-452-538-11	MAGNET	
207	4-926-395-01	SPRING, COMPRESSION	
208	4-923-597-01	SCREW, STEP	
209	4-926-399-01	BELT	

Ref. No.	Part No.	Description	Remark
210	4-957-457-01	TABLE (A), DISC	
211	4-934-380-01	PULLEY (R)	
212	4-957-439-01	PANEL (TABLE) (C801ES)	
212	4-957-439-11	PANEL (TABLE) (C701ES)	
* 213	1-647-365-11	DISC TABLE BOARD (C801ES)	
* 214	4-926-388-01	BRACKET (ADJUSTMENT)	
215	1-590-849-11	WIRE, FLAT TYPE (5 CORE)	
* 216	1-638-729-11	TABLE MOTOR BOARD	
D701	8-719-970-19	DIODE GP1A521	
M701	A-4604-585-A	MOTOR ASSY, ROTARY	

5-6. OPTICAL PICK-UP BLOCK (BU-5BD11)



The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
251	4-917-565-01	SHAFT, SLED	
252	4-933-126-01	INSULATOR (A)	
* 253	A-4649-433-A	BD BOARD, COMPLETE	
254	4-917-567-01	GEAR (M)	
255	4-917-564-01	GEAR (P), FLATNESS	
⚠256	8-848-144-11	DEVICE, OPTICAL KSS-240A	

Ref. No.	Part No.	Description	Remark
257	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
258	4-951-620-01	SCREW (2.6X8), +BVTP	
M101	X-4917-504-1	MOTOR ASSY, SLED	
M102	X-4917-523-3	MOTOR ASSY, SPINDLE	
S101	1-572-085-11	SWITCH, LEAF (LIMIT)	

SECTION 6
ELECTRICAL PARTS LIST

BD

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA . . : μA. . uPA. . : μPA. .
  uPB. . : μPB. . uPC. . : μPC. . uPD. . : μPD. .
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
*	A-4649-433-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-163-005-11	CERAMIC CHIP	470PF	10% 50V	
C102	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C103	1-163-005-11	CERAMIC CHIP	470PF	10% 50V	
C105	1-135-155-21	TANTALUM CHIP	4.7uF	10% 16V	
C106	1-164-346-11	CERAMIC CHIP	1uF	16V	
C107	1-164-505-11	CERAMIC CHIP	2.2uF	16V	
C108	1-163-035-00	CERAMIC CHIP	0.047uF	50V	
C109	1-163-011-11	CERAMIC CHIP	0.0015uF	10% 50V	
C110	1-163-017-00	CERAMIC CHIP	0.0047uF	5% 50V	
C111	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
C112	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C113	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C123	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C124	1-164-005-11	CERAMIC CHIP	0.47uF	25V	
C151	1-163-007-11	CERAMIC CHIP	680PF	10% 50V	
C152	1-163-007-11	CERAMIC CHIP	680PF	10% 50V	
C153	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C154	1-164-336-11	CERAMIC CHIP	0.33uF	25V	
C155	1-163-007-11	CERAMIC CHIP	680PF	10% 50V	
C156	1-163-007-11	CERAMIC CHIP	680PF	10% 50V	
C157	1-163-033-00	CERAMIC CHIP	0.022uF	50V	
C158	1-163-033-00	CERAMIC CHIP	0.022uF	50V	
C159	1-163-023-00	CERAMIC CHIP	0.015uF	5% 50V	
C160	1-163-019-00	CERAMIC CHIP	0.0068uF	10% 50V	
C161	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
		< CONNECTOR >			
* CN101	1-568-865-11	SOCKET, CONNECTOR 23P			
CN102	1-568-795-11	SOCKET, CONNECTOR 12P			
		< IC >			
IC101	8-752-351-94	IC	CXD2515Q		
IC102	8-759-071-79	IC	BA6297AFP		

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R101	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R102	1-216-097-00	METAL CHIP	100K	5% 1/10W	
R103	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R104	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R105	1-216-097-00	METAL CHIP	100K	5% 1/10W	
R106	1-216-061-00	METAL CHIP	3.3K	5% 1/10W	
R107	1-216-061-00	METAL CHIP	3.3K	5% 1/10W	
R108	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R109	1-216-121-00	METAL CHIP	1M	5% 1/10W	
R110	1-216-025-00	METAL CHIP	100	5% 1/10W	
R112	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R113	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R114	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R117	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R118	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R121	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R122	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R123	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R124	1-216-097-00	METAL CHIP	100K	5% 1/10W	
R128-130					
	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R131	1-216-037-00	METAL CHIP	330	5% 1/10W	
R151-156					
	1-216-070-00	METAL CHIP	7.5K	5% 1/10W	
R157	1-216-093-00	METAL CHIP	68K	5% 1/10W	
R158	1-216-076-00	METAL CHIP	13K	5% 1/10W	
R159	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R160	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R161	1-216-308-00	METAL CHIP	4.7	5% 1/10W	
R162	1-216-093-00	METAL CHIP	68K	5% 1/10W	
R163	1-216-093-00	METAL CHIP	68K	5% 1/10W	
		< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT)			
**********					

DISC TABLE | DISPLAY | DSP

Ref. No.	Part No.	Description			Remark
*	1-647-365-11	DISC TABLE BOARD (C801ES)			
		**********			
		< CONNECTOR >			
* CN410	1-564-704-11	PIN, CONNECTOR 2P (C801ES)			
		< RESISTOR >			
R999	1-249-417-11	CARBON (C801ES)	1K	5% 1/4W	
**********					
*	A-4649-638-A	DISPLAY BOARD, COMPLETE			
		**********			
*	4-945-419-01	HOLDER (FL)			
		< CAPACITOR >			
C801	1-124-584-00	ELECT	100uF	20% 10V	
C802	1-161-494-00	CERAMIC	0.022uF	25V	
C803	1-161-494-00	CERAMIC	0.022uF	25V	
C811	1-161-494-00	CERAMIC	0.022uF	25V	
		< CONNECTOR >			
CN801	1-750-234-11	CONNECTOR, FFC/FPC 17P			
CN802	1-750-195-11	CONNECTOR, BOARD TO BOARD 6P			
* CN803	1-691-963-11	CONNECTOR, BOARD TO BOARD 14P			
		< DIODE >			
D801	8-719-987-63	DIODE 1N4148M			
D802	8-719-987-63	DIODE 1N4148M			
D803	8-719-987-63	DIODE 1N4148M			
D804	8-719-987-63	DIODE 1N4148M			
D805	8-719-987-63	DIODE 1N4148M			
D806	8-719-987-63	DIODE 1N4148M			
		< FLUORESCENT INDICATOR >			
FL801	1-519-714-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC801	8-759-164-91	IC MSC62408-102V1K			
IC811	8-741-100-48	IC SBX1610-59			
		< TRANSISTOR >			
Q801-804	8-729-900-80	TRANSISTOR DTC114ES			
		< RESISTOR >			
R801	1-249-425-11	CARBON	4.7K	5% 1/4W	
R802	1-249-429-11	CARBON	10K	5% 1/4W	
R803	1-247-903-00	CARBON	1M	5% 1/4W	
R804	1-249-441-11	CARBON	100K	5% 1/4W	
R805	1-249-441-11	CARBON	100K	5% 1/4W	
R808	1-249-417-11	CARBON	1K	5% 1/4W	
		< SWITCH >			
S820	1-554-303-21	SWITCH, TACTILE (EDIT/TIME FADE)			
S821	1-554-303-21	SWITCH, TACTILE (REPEAT)			
S822	1-554-303-21	SWITCH, TACTILE (CONTINUE (PLAY MODE))			
S823	1-554-303-21	SWITCH, TACTILE (SHUFFLE (PLAY MODE))			
S824	1-554-303-21	SWITCH, TACTILE (PROGRAM (PLAY MODE))			
S825	1-554-303-21	SWITCH, TACTILE (BANK (PLAY MODE))			
S826	1-554-303-21	SWITCH, TACTILE (DISC 1)			
S827	1-554-303-21	SWITCH, TACTILE (DISC 2)			
S828	1-554-303-21	SWITCH, TACTILE (DISC 3)			
S829	1-554-303-21	SWITCH, TACTILE (DISC 4)			
S830	1-554-303-21	SWITCH, TACTILE (DISC 5)			
S831	1-554-303-21	SWITCH, TACTILE (P.SEARCH)			
S832	1-554-303-21	SWITCH, TACTILE (TIME/MEMO)			
		< VIBRATOR >			
X801	1-577-358-21	VIBRATOR, CERAMIC (4MHz)			
**********					
*	1-647-346-11	DSP BOARD			
		*********			
		< CONNECTOR >			
CN872	1-750-225-11	CONNECTOR, FFC/FPC 14P			
* CN880	1-568-936-11	PIN, CONNECTOR 9P			
		< DIODE >			
D871	8-719-301-49	LED SEL2810A (HALL)			
D872	8-719-301-49	LED SEL2810A (CHURCH)			
D873	8-719-301-49	LED SEL2810A (JAZZ CLUB)			
D874	8-719-301-49	LED SEL2810A (STADIUM)			
D875	8-719-301-49	LED SEL2810A (DANCE)			
D876	8-719-301-49	LED SEL2810A (LIVE ROOM)			
D877	8-719-301-49	LED SEL2810A (SOFT)			
		< RESISTOR >			
R870	1-249-425-11	CARBON	4.7K	5% 1/4W	
R876	1-249-416-11	CARBON	820	5% 1/4W	
R879	1-247-850-11	CARBON	6.2K	5% 1/4W	
R880	1-249-425-11	CARBON	4.7K	5% 1/4W	
R882	1-249-409-11	CARBON	220	5% 1/4W	

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV871	1-241-514-11	RES, VAR, CARBON 10K (EQUALIZER)	
RV872	1-241-514-11	RES, VAR, CARBON 10K (REVERB)	
		< SWITCH >	
S870	1-554-303-21	SWITCH, TACTILE (SELECT (DSP MODE))	
S876	1-554-303-21	SWITCH, TACTILE (DIRECT (DSP MODE))	
S879	1-554-303-21	SWITCH, TACTILE (FILE (DSP MODE))	
S880	1-554-303-21	SWITCH, TACTILE (FILE)	
S881	1-554-303-21	SWITCH, TACTILE (1)	
S882	1-554-303-21	SWITCH, TACTILE (2)	
S883	1-554-303-21	SWITCH, TACTILE (3)	
S884	1-554-303-21	SWITCH, TACTILE (4)	
S885	1-554-303-21	SWITCH, TACTILE (5)	
S886	1-554-303-21	SWITCH, TACTILE (LEVEL FILE)	
S887	1-554-303-21	SWITCH, TACTILE (ERASE)	
S888	1-554-303-21	SWITCH, TACTILE (6)	
S889	1-554-303-21	SWITCH, TACTILE (7)	
S890	1-554-303-21	SWITCH, TACTILE (8)	
S891	1-554-303-21	SWITCH, TACTILE (9)	
S892	1-554-303-21	SWITCH, TACTILE (10)	
S893	1-554-303-21	SWITCH, TACTILE (>10)	
**********			
*	1-647-345-11	FUNC BOARD **********	
*	3-362-478-11	HOLDER (T), LED	
		< CONNECTOR >	
* CN811	1-691-962-11	CONNECTOR, BOARD TO BOARD 14P	
		< DIODE >	
D807	8-719-301-52	LED SEL2810A-C (❚❚)	
D808	8-719-303-00	LED SEL2510C-C (▷)	
		< RESISTOR >	
R306	1-249-409-11	CARBON 220 5% 1/4W	
R307	1-249-406-11	CARBON 120 5% 1/4W	
		< SWITCH >	
S801	1-554-303-21	SWITCH, TACTILE (■)	
S802	1-554-303-21	SWITCH, TACTILE (❚❚)	
S803	1-554-303-21	SWITCH, TACTILE (▶)	
S804	1-554-303-21	SWITCH, TACTILE (▷▷)	
S805	1-554-303-21	SWITCH, TACTILE (◁◁)	
S806	1-554-303-21	SWITCH, TACTILE (▶▶)	
S807	1-554-303-21	SWITCH, TACTILE (◀◀)	
S808	1-554-303-21	SWITCH, TACTILE (⏏ OPEN/CLOSE)	
S809	1-554-303-21	SWITCH, TACTILE (DISC SKIP)	
**********			
*	1-647-349-11	HEADPHONE BOARD **********	
		< CAPACITOR >	
C501	1-164-159-11	CERAMIC 0.1uF 50V	
C571	1-126-024-11	ELECT 220uF 20% 16V	
C572	1-126-024-11	ELECT 220uF 20% 16V	
C841	1-162-290-31	CERAMIC 470PF 10% 50V	
C842	1-162-290-31	CERAMIC 470PF 10% 50V	
C843	1-164-159-11	CERAMIC 0.1uF 50V	
		< CONNECTOR >	
CN841	1-750-232-11	CONNECTOR, FFC/FPC 15P	
		< IC >	
IC841	8-759-981-89	IC RC4556S	
		< JACK >	
J841	1-750-162-61	JACK (LARGE TYPE) (PHONES)	
		< RESISTOR >	
R571	1-249-405-11	CARBON 100 5% 1/4W	
R572	1-249-405-11	CARBON 100 5% 1/4W	
R573	1-249-434-11	CARBON 27K 5% 1/4W	
R574	1-249-437-11	CARBON 47K 5% 1/4W	
R575	1-249-437-11	CARBON 47K 5% 1/4W	
R576	1-249-402-11	CARBON 56 5% 1/4W	
R577	1-247-881-00	CARBON 120K 5% 1/4W	
R583	1-249-434-11	CARBON 27K 5% 1/4W	
R584	1-249-437-11	CARBON 47K 5% 1/4W	
R585	1-249-437-11	CARBON 47K 5% 1/4W	
R586	1-249-402-11	CARBON 56 5% 1/4W	
R587	1-247-881-00	CARBON 120K 5% 1/4W	
		< VARIABLE RESISTOR >	
RV840	1-223-322-11	RES, VAR, CARBON 10K/10K/10K (LINE OUT/PHONE LEVEL)	
**********			
*	1-638-730-11	LOADING MOTOR BOARD **********	
		< CAPACITOR >	
C705	1-161-375-00	CERAMIC 0.0022uF 20% 50V	

MAIN

Ref. No.	Part No.	Description			Remark
*	A-4649-629-A	MAIN BOARD, COMPLETE(C701ES:US, Canadian)			
*	A-4649-630-A	MAIN BOARD, COMPLETE(C701ES:E)			
*	A-4649-634-A	MAIN BOARD, COMPLETE(C801ES)			
*	A-4649-780-A	MAIN BOARD, COMPLETE(C701ES:AEP)			
		**********			
*	4-363-146-21	HEAT SINK, V.OUT			
	7-682-547-09	SCREW +BVTT 3X6 (S)			
		< CAPACITOR >			
C201	1-124-572-11	ELECT	100uF	20%	63V
C202	1-126-163-11	ELECT	4.7uF	20%	50V
C205	1-126-163-11	ELECT	4.7uF	20%	50V
C206	1-126-059-11	ELECT	10uF	20%	50V
C207	1-126-059-11	ELECT	10uF	20%	50V
C208	1-126-022-11	ELECT	47uF	20%	16V
C210	1-126-101-11	ELECT	100uF	20%	16V
C211	1-126-012-11	ELECT	470uF	20%	16V
C212	1-126-024-11	ELECT (E)	220uF	20%	16V
C213	1-126-024-11	ELECT (E)	220uF	20%	16V
C215	1-126-101-11	ELECT	100uF	20%	16V
C218	1-126-053-11	ELECT (E)	220uF	20%	35V
C219	1-126-053-11	ELECT (E)	220uF	20%	35V
C220	1-164-159-11	CERAMIC	0.1uF		50V
C223	1-126-022-11	ELECT	47uF	20%	16V
C301	1-164-159-11	CERAMIC	0.1uF		50V
C310	1-136-165-00	FILM	0.1uF	5%	50V
C320	1-164-159-11	CERAMIC	0.1uF		50V
C323	1-164-159-11	CERAMIC	0.1uF		50V
C331	1-162-208-31	CERAMIC	24PF	5%	50V
C332	1-164-159-11	CERAMIC	0.1uF		50V
C333	1-162-205-31	CERAMIC	18PF	5%	50V
C336	1-124-589-11	ELECT	47uF	20%	16V
C337	1-164-159-11	CERAMIC	0.1uF		50V
C341	1-164-159-11	CERAMIC	0.1uF		50V
C342	1-124-994-11	ELECT	100uF	20%	10V
C343	1-164-159-11	CERAMIC	0.1uF		50V
C344	1-124-994-11	ELECT	100uF	20%	10V
C345	1-164-159-11	CERAMIC	0.1uF		50V
C346	1-164-159-11	CERAMIC	0.1uF		50V
C348	1-164-159-11	CERAMIC	0.1uF		50V
C349	1-124-994-11	ELECT	100uF	20%	10V
C351	1-164-159-11	CERAMIC	0.1uF		50V
C353	1-162-199-31	CERAMIC	10PF	5%	50V
C354	1-162-199-31	CERAMIC	10PF	5%	50V
C356	1-124-994-11	ELECT	100uF	20%	10V
C357	1-124-994-11	ELECT	100uF	20%	10V
C358	1-164-159-11	CERAMIC	0.1uF		50V
C361	1-162-280-31	CERAMIC	82PF	10%	50V
C363-366	1-162-211-31	CERAMIC	33PF	5%	50V
C367	1-162-280-31	CERAMIC	82PF	10%	50V
C371	1-106-359-00	MYLAR	4700PF	5%	200V
C372	1-106-359-00	MYLAR	4700PF	5%	200V
C373	1-130-472-00	MYLAR	0.0012uF	5%	50V
C374	1-130-472-00	MYLAR	0.0012uF	5%	50V
C375	1-126-012-11	ELECT	470uF	20%	16V
C376	1-126-012-11	ELECT	470uF	20%	16V
C377	1-124-910-11	ELECT	47uF	20%	50V
C378	1-124-910-11	ELECT	47uF	20%	50V
C390	1-130-472-00	MYLAR	0.0012uF	5%	50V
C391	1-130-472-00	MYLAR	0.0012uF	5%	50V
C401	1-126-022-11	ELECT	47uF	20%	16V
C402	1-162-306-11	CERAMIC	0.01uF	20%	16V
C403	1-126-022-11	ELECT	47uF	20%	16V
C404	1-126-022-11	ELECT	47uF	20%	16V
C408-410	1-164-159-11	CERAMIC	0.1uF		50V
C411	1-104-905-11	CAP, DOUBLE LAYERS	0.22F		5.5V
C412	1-164-159-11	CERAMIC	0.1uF		50V
C413	1-162-306-11	CERAMIC	0.01uF	20%	16V
C434-436	1-162-294-31	CERAMIC	0.001uF	10%	50V
C451	1-162-306-11	CERAMIC	0.01uF	20%	16V
C490	1-162-282-31	CERAMIC	100PF	10%	50V
C520	1-162-306-11	CERAMIC	0.01uF	20%	16V
C601	1-162-306-11	CERAMIC	0.01uF	20%	16V
C602-605	1-164-159-11	CERAMIC	0.1uF		50V
C901	1-164-159-11	CERAMIC	0.1uF		50V
C902	1-124-589-11	ELECT	47uF	20%	16V
C903	1-164-159-11	CERAMIC	0.1uF		50V
C904	1-126-022-11	ELECT	47uF	20%	16V
C905	1-162-306-11	CERAMIC	0.01uF	20%	16V
C909	1-162-306-11	CERAMIC	0.01uF	20%	16V
C912	1-136-165-00	FILM	0.1uF	5%	50V
C913	1-136-165-00	FILM	0.1uF	5%	50V
C915	1-164-159-11	CERAMIC	0.1uF		50V
C941	1-162-219-31	CERAMIC	68PF	5%	50V
C942	1-124-910-11	ELECT	47uF	20%	50V
C943-945	1-124-463-00	ELECT	0.1uF	20%	50V
C971	1-162-219-31	CERAMIC	68PF	5%	50V
C972	1-124-910-11	ELECT	47uF	20%	50V
C973-975	1-124-463-00	ELECT	0.1uF	20%	50V

MAIN

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
CN401	1-750-227-11	CONNECTOR, FFC/FPC 17P	
* CN404	1-568-943-11	PIN, CONNECTOR 5P	
* CN406	1-568-824-11	SOCKET, CONNECTOR 5P	
CN601	1-566-213-11	PIN, CONNECTOR 4P (CONTROLS (IN))	
CN901	1-750-231-11	CONNECTOR, FFC/FPC 14P	
CN903	1-750-226-11	CONNECTOR, FFC/FPC 15P	
CN904	1-750-235-11	CONNECTOR, FFC/FPC 22P	
		< DIODE >	
D201	8-719-200-82	DIODE 11ES2	
D202	8-719-109-87	DIODE RD5.6ES-B	
D208	8-719-109-85	DIODE RD5.1ES-B2	
D209	8-719-987-63	DIODE 1N4148M	
D215	8-719-200-82	DIODE 11ES2 (E)	
D216	8-719-200-82	DIODE 11ES2 (E)	
D217	8-719-987-63	DIODE 1N4148M (E)	
D218	8-719-987-63	DIODE 1N4148M (E)	
D351	8-719-987-63	DIODE 1N4148M	
D401	8-719-987-63	DIODE 1N4148M	
D601	8-719-987-63	DIODE 1N4148M	
D602	8-719-987-63	DIODE 1N4148M	
D603	8-719-109-87	DIODE RD5.6ES-B	
		< IC >	
IC201	8-759-605-43	IC M5231TL	
IC202	8-759-630-21	IC M5290P-16	
IC203	8-759-145-58	IC uPC4558C	
IC204	8-759-605-00	IC TA7807S-LC	
IC205	8-759-094-64	IC TA7812S-LC	
IC206	8-759-094-59	IC TA7912S-LC	
IC302	8-752-356-03	IC CXD2567M	
IC303	8-759-044-10	IC CXD2562Q	
IC306	8-759-982-03	IC RC5532DD	
IC307	8-759-982-03	IC RC5532DD	
IC308	8-749-921-12	IC GP1F32T (DIGITAL OUT (OPTICAL))	
IC401	8-759-164-92	IC uPD75516GF-468-3B9	
IC402	8-759-512-81	IC LH5160N-10L	
IC403	8-759-821-32	IC CXA1291P	
IC901	8-752-341-99	IC CXD2701Q	
IC902	8-759-508-41	IC MS51464-10XC	
IC903	8-759-065-83	IC M37470M4-089SP	
IC904	8-759-917-18	IC SN74HCU04AN	
IC910	8-759-982-03	IC RC5532DD	
		< JACK >	
J390	1-569-443-21	JACK, PIN 4P (LINE OUT)	

Ref. No.	Part No.	Description	Remark
		< INDUCTOR >	
L201	1-410-970-11	INDUCTOR 6.8uH (E)	
L331	1-408-403-00	INDUCTOR 3.3uH	
L341-348	1-412-473-21	INDUCTOR 0uH	
L904	1-408-403-00	INDUCTOR 3.3uH	
		< IC LINK >	
⚠PS201	1-532-605-00	LINK, IC ICP-N10 0.4A (AEP)	
⚠PS202	1-532-605-00	LINK, IC ICP-N10 0.4A (AEP)	
		< TRANSISTOR >	
Q201	8-729-900-89	TRANSISTOR DTC144ES	
Q203	8-729-821-73	TRANSISTOR 2SB1274SA-RS	
Q204	8-729-900-61	TRANSISTOR DTA114ES	
Q205	8-729-900-89	TRANSISTOR DTC144ES	
Q206	8-729-900-89	TRANSISTOR DTC144ES	
Q341	8-729-900-61	TRANSISTOR DTA114ES	
Q342	8-729-900-61	TRANSISTOR DTA114ES	
Q343	8-729-900-65	TRANSISTOR DTA144ES	
Q344	8-729-900-89	TRANSISTOR DTC144ES	
Q371	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q372	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q373	8-729-900-74	TRANSISTOR DTC143TS	
Q374	8-729-900-74	TRANSISTOR DTC143TS	
Q375	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q376	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q601	8-729-900-89	TRANSISTOR DTC144ES	
Q602-604	8-729-900-61	TRANSISTOR DTA114ES	
Q901-903	8-729-900-63	TRANSISTOR DTA124ES	
Q941-943	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q971-973	8-729-231-55	TRANSISTOR 2SC2878-AB	
		< RESISTOR >	
R201	1-249-429-11	CARBON 10K 5% 1/4W	
R202	1-249-417-11	CARBON 1K 5% 1/4W	
R205	1-249-425-11	CARBON 4.7K 5% 1/4W	
R208	1-249-423-11	CARBON 3.3K 5% 1/4W	
R209	1-249-413-11	CARBON 470 5% 1/4W	
R210	1-249-429-11	CARBON 10K 5% 1/4W	
R211	1-249-410-11	CARBON 270 5% 1/4W	
R212	1-249-439-11	CARBON 68K 5% 1/4W	
R213	1-249-423-11	CARBON 3.3K 5% 1/4W	
R214	1-249-417-11	CARBON 1K 5% 1/4W	
R220	1-249-417-11	CARBON 1K 5% 1/4W	

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MAIN

Ref. No.	Part No.	Description			Remark
R301-303					
	1-249-417-11	CARBON	1K	5%	1/4W
R321-324					
	1-249-417-11	CARBON	1K	5%	1/4W
R330	1-249-417-11	CARBON	1K	5%	1/4W
R331	1-249-409-11	CARBON	220	5%	1/4W
R332	1-247-887-00	CARBON	220K	5%	1/4W
R342	1-249-416-11	CARBON	820	5%	1/4W
R343	1-249-441-11	CARBON	100K	5%	1/4W
R344	1-249-441-11	CARBON	100K	5%	1/4W
R345	1-249-425-11	CARBON	4.7K	5%	1/4W
R346	1-249-425-11	CARBON	4.7K	5%	1/4W
R347	1-249-441-11	CARBON	100K	5%	1/4W
R349	1-249-416-11	CARBON	820	5%	1/4W
R351-358					
	1-215-459-00	METAL	39K	1%	1/6W
R359	1-247-848-11	CARBON	5.1K	5%	1/4W
R361-364					
	1-215-453-00	METAL	22K	1%	1/6W
R365-368					
	1-215-462-00	METAL	51K	1%	1/6W
R369-372					
	1-249-419-11	CARBON	1.5K	5%	1/4W
R373	1-247-891-00	CARBON	330K	5%	1/4W
R374	1-247-891-00	CARBON	330K	5%	1/4W
R375-378					
	1-249-409-11	CARBON	220	5%	1/4W
R379	1-249-421-11	CARBON	2.2K	5%	1/4W
R380	1-249-421-11	CARBON	2.2K	5%	1/4W
R383	1-249-413-11	CARBON	470	5%	1/4W
R384	1-249-413-11	CARBON	470	5%	1/4W
R385	1-249-393-11	CARBON	10	5%	1/4W
R386	1-249-393-11	CARBON	10	5%	1/4W
R389	1-249-413-11	CARBON	470	5%	1/4W
R390	1-249-413-11	CARBON	470	5%	1/4W
R401	1-249-411-11	CARBON	330	5%	1/4W
R402	1-249-399-11	CARBON	33	5%	1/4W
R403	1-249-417-11	CARBON	1K	5%	1/4W
R409	1-247-881-00	CARBON (C701ES)	120K	5%	1/4W
R409	1-247-882-11	CARBON (C801ES)	130K	5%	1/4W
R410	1-247-881-00	CARBON (C701ES)	120K	5%	1/4W
R410	1-247-882-11	CARBON (C801ES)	130K	5%	1/4W
R411	1-247-880-11	CARBON (C801ES)	110K	5%	1/4W
R411	1-249-441-11	CARBON (C701ES)	100K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R412	1-247-878-00	CARBON (C701ES)	91K	5%	1/4W
R412	1-249-441-11	CARBON (C801ES)	100K	5%	1/4W
R413	1-247-881-00	CARBON	120K	5%	1/4W
R414	1-247-881-00	CARBON	120K	5%	1/4W
R415	1-247-876-11	CARBON (C801ES)	75K	5%	1/4W
R415	1-249-439-11	CARBON (C701ES)	68K	5%	1/4W
R416	1-247-876-11	CARBON (C801ES)	75K	5%	1/4W
R416	1-249-439-11	CARBON (C701ES)	68K	5%	1/4W
R417	1-247-878-00	CARBON	91K	5%	1/4W
R418	1-247-878-00	CARBON	91K	5%	1/4W
R419	1-249-440-11	CARBON	82K	5%	1/4W
R420	1-249-440-11	CARBON	82K	5%	1/4W
R421-423					
	1-249-393-11	CARBON	10	5%	1/4W
R450-454					
	1-249-429-11	CARBON	10K	5%	1/4W
R456-465					
	1-249-429-11	CARBON	10K	5%	1/4W
R470-472					
	1-249-417-11	CARBON	1K	5%	1/4W
R473	1-249-429-11	CARBON (C801ES)	10K	5%	1/4W
R490-493					
	1-249-429-11	CARBON	10K	5%	1/4W
R601	1-249-429-11	CARBON	10K	5%	1/4W
R602	1-249-429-11	CARBON	10K	5%	1/4W
R603	1-249-393-11	CARBON	10	5%	1/4W
R901-903					
	1-249-417-11	CARBON	1K	5%	1/4W
R904	1-249-405-11	CARBON	100	5%	1/4W
R905-907					
	1-249-417-11	CARBON	1K	5%	1/4W
R910	1-249-429-11	CARBON	10K	5%	1/4W
R915-917					
	1-249-441-11	CARBON	100K	5%	1/4W
R924	1-249-417-11	CARBON	1K	5%	1/4W
R925	1-249-417-11	CARBON	1K	5%	1/4W
R941	1-249-419-11	CARBON	1.5K	5%	1/4W
R943	1-215-469-00	METAL	100K	1%	1/6W
R945-947					
	1-249-425-11	CARBON	4.7K	5%	1/4W
R948	1-249-421-11	CARBON	2.2K	5%	1/4W
R949	1-249-422-11	CARBON	2.7K	5%	1/4W
R950	1-247-836-11	CARBON	1.6K	5%	1/4W
R951	1-247-828-11	CARBON	750	5%	1/4W

Ref. No.	Part No.	Description			Remark
R952	1-247-832-11	CARBON	1.1K	5% 1/4W	
R953	1-249-410-11	CARBON	270	5% 1/4W	
R971	1-249-419-11	CARBON	1.5K	5% 1/4W	
R973	1-215-469-00	METAL	100K	1% 1/6W	
R975-977					
	1-249-425-11	CARBON	4.7K	5% 1/4W	
R978	1-249-421-11	CARBON	2.2K	5% 1/4W	
R979	1-249-422-11	CARBON	2.7K	5% 1/4W	
R980	1-247-836-11	CARBON	1.6K	5% 1/4W	
R981	1-247-828-11	CARBON	750	5% 1/4W	
R982	1-247-832-11	CARBON	1.1K	5% 1/4W	
R983	1-249-410-11	CARBON	270	5% 1/4W	
		< VIBRATOR >			
X351	1-579-161-11	VIBRATOR, CRYSTAL (45MHz)			
X401	1-577-359-21	VIBRATOR, CERAMIC (4.19MHz)			
X901	1-577-358-21	VIBRATOR, CERAMIC (4MHz)			
**********					
*	1-638-731-11	OPEN/UP SW BOARD			
		**********			
		< CONNECTOR >			
CN705	1-573-383-11	PIN, CONNECTOR (PC BOARD) 2P			
		< SWITCH >			
S702	1-571-300-21	SWITCH, ROTARY (OPEN/CLOSE)			
**********					
*	1-647-347-11	P.SW BOARD			
		**********			
		< CONNECTOR >			
CN852	1-750-186-11	CONNECTOR, BOARD TO BOARD 6P			
		< SWITCH >			
S852	1-572-714-11	SWITCH, PUSH (POWER)			
**********					
*	1-638-729-11	TABLE MOTOR BOARD			
		**********			
		< CAPACITOR >			
C704	1-161-375-00	CERAMIC	0.0022uF	20% 50V	
		< CONNECTOR >			
* CN707	1-573-044-11	SOCKET, CONNECTOR 5P			

Ref. No.	Part No.	Description			Remark
		< DIODE >			
D701	8-719-970-19	DIODE GP1A521			
		< RESISTOR >			
R701	1-249-416-11	CARBON	820	5% 1/4W	
**********					
*	1-647-348-11	TIMER BOARD			
		**********			
S851	1-570-157-51	SWITCH, SLIDE (TIMER)			
**********					
*	1-647-342-11	TRANSFORMER BOARD			
		**********			
		< CAPACITOR >			
C203	1-124-887-00	ELECT	3300uF	20% 16V	
C204	1-124-887-00	ELECT	3300uF	20% 16V	
C216	1-124-962-11	ELECT (EXCEPT E)	2200uF	20% 25V	
C217	1-124-962-11	ELECT (EXCEPT E)	2200uF	20% 25V	
C221	1-164-159-11	CERAMIC	0.1uF	50V	
C222	1-164-159-11	CERAMIC (EXCEPT E)	0.1uF	50V	
		< CONNECTOR >			
* CN201	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P			
* CN202	1-564-506-11	PLUG, CONNECTOR 3P (EXCEPT E)			
* CN204	1-564-510-11	PLUG, CONNECTOR 7P (EXCEPT E)			
* CN204	1-564-513-11	PLUG, CONNECTOR 10P (E)			
CN206	1-696-980-11	LEAD (WITH CONNECTOR) (EXCEPT E)			
CN207	1-564-321-00	PIN, CONNECTOR 2P (EXCEPT E)			
		< DIODE >			
D203	8-719-200-82	DIODE 11ES2			
D204	8-719-200-82	DIODE 11ES2			
D205	8-719-200-82	DIODE 11ES2			
D206	8-719-200-82	DIODE 11ES2			
D211	8-719-200-82	DIODE 11ES2 (EXCEPT E)			
D212	8-719-200-82	DIODE 11ES2 (EXCEPT E)			
D213	8-719-200-82	DIODE 11ES2 (EXCEPT E)			
D214	8-719-200-82	DIODE 11ES2 (EXCEPT E)			
		< SWITCH >			
⚠S201	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR) (E)			
**********					

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Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
⚠16	1-559-583-21	CORD, POWER (US, Canadian)	
⚠60	1-558-568-21	CORD, POWER (AEP)	
⚠61	1-558-181-21	CORD, POWER (E)	
⚠62	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
⚠63	1-559-583-21	CORD, POWER (US, Canadian)	
113	1-751-045-11	WIRE (FLAT TYPE) (14 CORE)	
114	1-751-044-11	WIRE (FLAT TYPE) (15 CORE)	
117	1-751-046-11	WIRE (FLAT TYPE) (17 CORE)	
168	1-537-501-11	JUMPER, FILM (WITH TERMINAL)	
* 206	1-452-538-11	MAGNET	
215	1-590-849-11	WIRE, FLAT TYPE (5 CORE)	
⚠256	8-848-144-11	DEVICE, OPTICAL KSS-240A	
257	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
M101	X-4917-504-1	MOTOR ASSY, SLED	
M102	X-4917-523-3	MOTOR ASSY, SPINDLE	
M701	A-4604-585-A	MOTOR ASSY, ROTARY	
M702	A-4604-871-A	MOTOR ASSY, LOADING	
S701	1-572-713-11	SWITCH, PUSH (WITH CONNECTOR) (DOWN)	
⚠T201	1-423-508-11	TRANSFORMER, POWER (US, Canadian)	
⚠T201	1-423-509-11	TRANSFORMER, POWER (AEP)	
⚠T201	1-423-510-11	TRANSFORMER, POWER (E)	
⚠T202	1-423-506-11	TRANSFORMER, POWER (US, Canadian)	
⚠T202	1-423-507-11	TRANSFORMER, POWER (AEP)	
**********			
		ACCESSORIES & PACKING MATERIALS	
		******************************	
	1-466-995-11	REMOTE COMMANDER (RM-D801)	
	1-558-271-11	CORD, CONNECTION	
	1-590-925-31	CORD, CONNECTION	
	3-704-366-01	SCREW (CASE) (M3X8)	
	3-707-584-01	COVER, BATTERY	
	3-756-499-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) (Canadian, AEP, E)	
	3-756-499-21	MANUAL, INSTRUCTION (ENGLISH) (US)	
	3-756-499-41	MANUAL, INSTRUCTION (GERMAN, DUTCH, ITALIAN, PORTUGUESE) (AEP)	
*	4-934-320-01	CUSHION (FRONT)	
*	4-934-321-01	CUSHION (REAR)	
	4-945-435-01	SCREW (TRANSPORT LOCK) (C801ES)	
*	4-958-481-01	INDIVIDUAL CARTON (C701ES)	
*	4-958-482-01	INDIVIDUAL CARTON (C801ES)	
**********			

Ref. No.	Part No.	Description	Remark
		**********	
		HARDWARE LIST	
		**********	
#1	7-682-247-09	SCREW +K 3X6	
#2	7-685-648-79	SCREW +BVTP 3X12 TYPE2 N-S	
#3	7-685-870-01	SCREW +BVTT 3X5 (S)	
#4	7-682-547-09	SCREW +BV 3X6, S TIGHT	
#5	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#6	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#7	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
#8	7-685-136-19	SCREW +P 2.6X12 TYPE2 NON-SLIT	
#9	7-685-666-79	SCREW +BVTP 4X30 TYPE2 N-S (C801ES)	
#10	7-682-554-04	SCREW +B 3X25	
#11	7-682-549-04	SCREW +BVTT 3X10 (S)	
#12	7-682-961-01	SCREW +PSW 4X8	
#13	7-621-255-15	SCREW +P 2X3	
#14	7-685-872-01	SCREW +BVTT 3X8 (S)	

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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CDP-C701ES/C801ES

SONY
SERVICE MANUAL

US Model
CDP-C701ES/C801ES

Canadian Model
AEP Model
E Model
CDP-C701ES

SUPPLEMENT-1

File this supplement with the service manual.

Subject : US model disuse the side panel.

· Difference Parts

Page	Ref.No.	Part No.	Description
31	3	3-704-366-01	SCREW (CASE) (M3×8)
32	53	3-704-366-01	SCREW (CASE) (M3×8)
44	—	* 4-964-909-01	INDIVIDUAL CARTON (C701ES : US)
	—	* 4-964-911-01	INDIVIDUAL CARTON (C801ES)

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